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BULLETIN
OF
A. & T. COLLEGE

Published by
**THE AGRICULTURAL AND
TECHNICAL COLLEGE
of NORTH CAROLINA**

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*Obedience to the Law is the Largest Liberty*



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**Issued Quarterly  
GREENSBORO, NORTH CAROLINA  
CALENDAR 1944-1945**

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## COLLEGE CALENDAR

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### 1944-1945

September 12—Entrance examinations.  
September 12—Freshmen and New Students begin Registration and Orientation.  
September 13—Continuation of Freshman Orientation.  
September 14—Freshmen and New Students complete registration.  
September 15—Registration of upperclassmen.  
September 18—Classes begin.  
September 25—Last day for changes in schedule.  
December 21-22—Fall quarter examinations.  
January 2—Registration for Winter Quarter.  
January 10—Last day for changes in schedule.  
March 15-16—Winter Quarter examinations.  
March 19—Registration for Spring Quarter.  
March 20—Classes begin.  
March 29—Last day for changes in schedule.  
May 24-May 25—Spring Quarter examinations.  
May 27—Baccalaureate.  
May 28—Commencement.  
June 4—Registration for Summer Quarter.

### HOLIDAYS

Thanksgiving Day, November 30, 1944—Christmas holidays, December 23, 1944-January 2, 1945.

### SPECIAL DAYS

Dudley Day—November 2, 1944.  
Education Week—November 5-11.  
Religious Emphasis Week—December 3-9.  
Douglas' Birthday and Negro History Week—(Joint Observance) February 11-17.  
Arbor Day, March 15—(Special program by School of Agriculture).  
National Negro Health Week, April 2-8.  
Morrill's Birthday, April 14—(Special programs by Agricultural and Mechanic Arts Societies.)  
Farmers' Conference, to be announced.

VOL. 35

MAY, 1944

No. 4

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B U L L E T I N  
OF  
*The*  
**Agricultural and Technical  
College**

OF NORTH CAROLINA  
(Co-Educational Institution)

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F. D. Bluford Library  
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Greensboro, N. C. 2/411

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**FORTY-NINTH ANNUAL CATALOGUE  
1943 - 1944**

With Announcements for  
1944 - 1945

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Recognized as A STANDARD "A" GRADE COLLEGE by  
the North Carolina Department of Education, the Council  
of Education of the State of Pennsylvania, the American  
Medical Association, the Southern Association of  
Colleges and Secondary Schools

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GREENSBORO, NORTH CAROLINA

## COLLEGE PUBLICATIONS

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*The Bulletin of the A. and T. College*, published annually as the official catalogue of the College.

*The Bulletin of the A. and T. College Summer Session*, published annually as the official catalogue of the Summer School.

*The Bulletin of the Graduate Division* of the A. and T. College, published annually.

*Annual Pictorial Issue* of the Bulletin.

*The A. and T. College Student Handbook*, published annually for general information and guidance of the students.

*The Register*, the official organ of the student body, published monthly. Edited and managed by the student body under the supervision of the College staff.

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## ANNOUNCEMENTS

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### NOTE ANNOUNCEMENTS—IMPORTANT TO EVERY STUDENT

1. **Vaccinations.**—Each student is required to be vaccinated on entering unless evidence be presented to satisfy the College Physician that vaccination is unnecessary.
2. **Lodging Deposits.**—Students should reserve rooms far in advance of the time of arrival by paying the room deposit of one dollar, which will later be credited to their account upon presentation of receipt.
3. **Examinations.**—Entrance examinations and examinations for removal of conditions will be held September 12. All students who have conditions to remove should avail themselves of this opportunity.
4. **Boarding Students.**—All students who room on the campus must take meals in Murphy Hall.
5. **Non-Resident Students.**—Students whose legal residence is not in Greensboro will not be permitted to board and lodge off the campus unless they have special permission or unless they have employment that requires them to live on the premises.
6. **Fraternity Houses.**—The College will not permit fraternities, sororities or other groups to establish “houses” off the campus.
7. **Student Load.**—Each regularly classified student will be required to register for 14 hours of work as a minimum. The maximum shall be 19 hours except as provided for by exceptional scholarship. (See page 36 for complete list of fees and expenses). Students carrying a normal load in regular classes will not be permitted to register for credit in evening or extension classes.
8. **Changes in Schedule.**—Students have one week from the beginning of each quarter in which to make adjustments in their schedule. After this time no changes will be permitted except by written permission of the Dean of the particular school. The Registrar will then recall the class card and discharge the student from the class.

No student will be allowed credit for courses added to his schedule without permission after it has been approved, and any student illegally dropping a course in which he has been registered will be assigned the grade F at the end of the quarter.

**9. Attendance.**—Students will be required to attend the regular exercises of the courses in which they are registered.

**10. Deportment.**—Any student who manifests unwillingness to conform to the rules and regulations that are prescribed, or that may be prescribed to govern the student body, or any student whose influence or deportment seems detrimental to the best interests of the school will be asked to withdraw from the institution.

A student automatically forfeits his privilege of working for pay at the College when, for any reason, he is placed on probation because of misconduct.

**11. Scholarship.**—Students are expected to do a passing grade of work. Those failing in more than fifty per cent of the work in which they are registered during any quarter will be requested to withdraw.

**12. Honor Roll.**—To encourage scholarship and integrity, the College publishes an Honor Roll at the end of each quarter. Regular students whose average grade in all courses is "B" shall be eligible for the Honor Roll. Those students whose grade point average is 2.5 each quarter for three consecutive quarters shall be eligible for an Alumni Scholarship.

**13. Disciplinary Suspension.**—All students, except bona fide residents of Greensboro, are required to leave the campus and the city within forty-eight hours after disciplinary suspension. Permission to re-enter the College will not be granted if this regulation is violated.

**14. Withdrawal from College.**—Students who for any reason find it necessary to withdraw from College before the scheduled termination of the school year should file an official withdrawal with the Bursar. Forms for this purpose may be secured in the office of the Registrar. They should be signed by the designated officials and filed before leaving the campus.

All accruing accounts and obligations against such student will terminate on date of filing withdrawal notice. Accruing accounts will continue against those failing to file notice of withdrawal.

**15. Extracurricular Activities.**—Each student shall be encouraged to participate in some one extracurricular activity, upon which he shall be graded with regards to excellence. Special consideration will be allowed students who bring their band or orchestra instruments.

**16. Dormitory Provisions.**—The College provides for each student a bed, bureau, study table and straight chair. Students

are required to furnish their own curtains, blankets, bed linen, rugs and towels. Electrical applicances, other than those already supplied, are forbidden. Exception: Radios.

**17. Student Work.**—Students desiring assistance in defraying expenses, as far as possible, will be allowed to work, for which work they can get credit each month at the time of their advance payment.

The pay allowed all students, except seniors, shall be in settlement of their accounts or claim against the College.

The several industries operated in the College afford opportunity for a limited number of needy but industrious students to help themselves. It is impossible to state definitely and in advance how much a student can earn per month.

**18. Radios.**—Students who desire radios in their rooms will be required to pay a radio fee of 50 cents per month to cover the cost for current used.

**19. Entrance Fees.**—Each student must pay in cash all entrance fees and expenses for the first month, when he registers. See page 36 for complete list of fees and expenses.

**20. Monthly and Quarterly Fees.**—Any student whose bills are not paid on or before the day following the date on which such bills are due will be excluded from all College privileges until such bills are paid.

**21. Late Fees.**—Each registrant will be required to pay 50 cents for each day that he is late after the last day assigned for registration.

**22. Medical Examination Fees.**—All regularly enrolled students of the College will be required to take a physical examination upon entrance. The College Physician, or some other physician designated by him, will be in charge of all examinations. Day students will be assessed a small fee to cover this and other emergency services.

**23. Military Science Deposit.**—All R.O.T.C. students are required to make a deposit of ten dollars for uniforms. This deposit will be refunded when the uniform is returned in good condition. (All freshmen and sophomores not excused by the College Physician are members of the R.O.T.C.)

## **SCHEDULE OF ENTRANCE EXAMINATIONS**

---

(For those who do not present an acceptable certificate of admission)

**Tuesday, September 12:**

**History**—(Ancient, Medieval, Modern, American), civics: 8:00 to 10:00 a.m.

**English**—(Composition, English and American literature), industries, French: 10:00 a.m. to 12:00 m.

**Mathematics**—(Algebra, trigonometry), chemistry, biological sciences, economics: 1:00 to 3:00 p.m.

### **SPECIAL ANNOUNCEMENT**

#### **THE ACCELERATED COLLEGE COURSE**

In order to give young men subject to military service an opportunity to advance themselves as rapidly as possible toward graduation, the College has adopted an accelerated plan whereby freshmen may register any quarter, including the summer, and by continuing for three years, complete the regular four-year curriculum and receive the bachelor of science degree. (For opening dates of new quarters, see College Calendar on inside cover page).

It should be noted, however, that the regular graduation requirements, such as the number of hours, quality points, majors and minors, remain unchanged. The main difference is to be found in the fact that special provisions are made for the admission of freshmen in the summer, and all of the departments and divisions will be open to them, making it possible for a full quarter of regular college work to be completed each summer.

Upperclassmen entering the accelerated plan may be able to reduce their time requirement in proportion to the amount of credit they are able to gain by summer attendance.

# 1944

| JANUARY  |    |    |    |    |    |    | APRIL |    |    |    |    |    |    | JULY      |    |    |    |    |    |    | OCTOBER  |    |    |    |    |    |    |  |
|----------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|--|
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          |    |    |    |    |    | 1  |       |    |    |    |    |    | 1  |           |    |    |    |    |    | 1  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |  |
| 2        | 3  | 4  | 5  | 6  | 7  | 8  | 2     | 3  | 4  | 5  | 6  | 7  | 8  | 2         | 3  | 4  | 5  | 6  | 7  | 8  | 8        | 9  | 10 | 11 | 12 | 13 | 14 |  |
| 9        | 10 | 11 | 12 | 13 | 14 | 15 | 9     | 10 | 11 | 12 | 13 | 14 | 15 | 9         | 10 | 11 | 12 | 13 | 14 | 15 | 15       | 16 | 17 | 18 | 19 | 20 | 21 |  |
| 16       | 17 | 18 | 19 | 20 | 21 | 22 | 16    | 17 | 18 | 19 | 20 | 21 | 22 | 16        | 17 | 18 | 19 | 20 | 21 | 22 | 22       | 23 | 24 | 25 | 26 | 27 | 28 |  |
| 23       | 24 | 25 | 26 | 27 | 28 | 29 | 23    | 24 | 25 | 26 | 27 | 28 | 29 | 23        | 24 | 25 | 26 | 27 | 28 | 29 | 29       | 30 | 31 |    |    |    |    |  |
| 30       | 31 |    |    |    |    |    | 30    |    |    |    |    |    |    | 30        | 31 |    |    |    |    |    |          |    |    |    |    |    |    |  |
| FEBRUARY |    |    |    |    |    |    | MAY   |    |    |    |    |    |    | AUGUST    |    |    |    |    |    |    | NOVEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  | 4  | 5  | 6  | 1     | 2  | 3  | 4  | 5  | 6  | 7  |           | 1  | 2  | 3  | 4  | 5  | 6  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |  |
| 6        | 7  | 8  | 9  | 10 | 11 | 12 | 7     | 8  | 9  | 10 | 11 | 12 | 13 | 6         | 7  | 8  | 9  | 10 | 11 | 12 | 5        | 6  | 7  | 8  | 9  | 10 | 11 |  |
| 13       | 14 | 15 | 16 | 17 | 18 | 19 | 14    | 15 | 16 | 17 | 18 | 19 | 20 | 13        | 14 | 15 | 16 | 17 | 18 | 19 | 12       | 13 | 14 | 15 | 16 | 17 | 18 |  |
| 20       | 21 | 22 | 23 | 24 | 25 | 26 | 21    | 22 | 23 | 24 | 25 | 26 | 27 | 20        | 21 | 22 | 23 | 24 | 25 | 26 | 19       | 20 | 21 | 22 | 23 | 24 | 25 |  |
| 27       | 28 | 29 |    |    |    |    | 28    | 29 | 30 | 31 |    |    |    | 27        | 28 | 29 | 30 | 31 |    |    | 26       | 27 | 28 | 29 | 30 |    |    |  |
| MARCH    |    |    |    |    |    |    | JUNE  |    |    |    |    |    |    | SEPTEMBER |    |    |    |    |    |    | DECEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  | 4  | 5  | 6  |       | 1  | 2  | 3  |    |    |    |           | 1  | 2  |    |    |    |    | 1        |    |    |    |    |    |    |  |
| 5        | 6  | 7  | 8  | 9  | 10 | 11 | 4     | 5  | 6  | 7  | 8  | 9  | 10 | 3         | 4  | 5  | 6  | 7  | 8  | 9  | 3        | 4  | 5  | 6  | 7  | 8  | 9  |  |
| 12       | 13 | 14 | 15 | 16 | 17 | 18 | 11    | 12 | 13 | 14 | 15 | 16 | 17 | 10        | 11 | 12 | 13 | 14 | 15 | 16 | 10       | 11 | 12 | 13 | 14 | 15 | 16 |  |
| 19       | 20 | 21 | 22 | 23 | 24 | 25 | 18    | 19 | 20 | 21 | 22 | 23 | 24 | 17        | 18 | 19 | 20 | 21 | 22 | 23 | 17       | 18 | 19 | 20 | 21 | 22 | 23 |  |
| 26       | 27 | 28 | 29 | 30 | 31 |    | 25    | 26 | 27 | 28 | 29 | 30 |    | 24        | 25 | 26 | 27 | 28 | 29 | 30 | 24       | 25 | 26 | 27 | 28 | 29 | 30 |  |
| JANUARY  |    |    |    |    |    |    | APRIL |    |    |    |    |    |    | JULY      |    |    |    |    |    |    | OCTOBER  |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  | 4  | 5  | 6  | 1     | 2  | 3  | 4  | 5  | 6  | 7  | 1         | 2  | 3  | 4  | 5  | 6  | 7  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |  |
| 7        | 8  | 9  | 10 | 11 | 12 | 13 | 8     | 9  | 10 | 11 | 12 | 13 | 14 | 8         | 9  | 10 | 11 | 12 | 13 | 14 | 7        | 8  | 9  | 10 | 11 | 12 | 13 |  |
| 14       | 15 | 16 | 17 | 18 | 19 | 20 | 15    | 16 | 17 | 18 | 19 | 20 | 21 | 15        | 16 | 17 | 18 | 19 | 20 | 21 | 14       | 15 | 16 | 17 | 18 | 19 | 20 |  |
| 21       | 22 | 23 | 24 | 25 | 26 | 27 | 22    | 23 | 24 | 25 | 26 | 27 | 28 | 22        | 23 | 24 | 25 | 26 | 27 | 28 | 21       | 22 | 23 | 24 | 25 | 26 | 27 |  |
| 28       | 29 | 30 | 31 |    |    |    | 29    | 30 |    |    |    |    |    | 29        | 30 | 31 |    |    |    |    | 28       | 29 | 30 | 31 |    |    |    |  |
| FEBRUARY |    |    |    |    |    |    | MAY   |    |    |    |    |    |    | AUGUST    |    |    |    |    |    |    | NOVEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  |    |    |    | 1     | 2  | 3  | 4  | 5  |    |    |           | 1  | 2  | 3  | 4  |    |    | 1        |    |    |    |    |    |    |  |
| 4        | 5  | 6  | 7  | 8  | 9  | 10 | 6     | 7  | 8  | 9  | 10 | 11 | 12 | 5         | 6  | 7  | 8  | 9  | 10 | 11 | 4        | 5  | 6  | 7  | 8  | 9  | 10 |  |
| 11       | 12 | 13 | 14 | 15 | 16 | 17 | 13    | 14 | 15 | 16 | 17 | 18 | 19 | 12        | 13 | 14 | 15 | 16 | 17 | 18 | 11       | 12 | 13 | 14 | 15 | 16 | 17 |  |
| 18       | 19 | 20 | 21 | 22 | 23 | 24 | 20    | 21 | 22 | 23 | 24 | 25 | 26 | 19        | 20 | 21 | 22 | 23 | 24 | 25 | 18       | 19 | 20 | 21 | 22 | 23 | 24 |  |
| 25       | 26 | 27 | 28 |    |    |    | 27    | 28 | 29 | 30 | 31 |    |    | 26        | 27 | 28 | 29 | 30 | 31 |    | 25       | 26 | 27 | 28 | 29 | 30 | 31 |  |
| MARCH    |    |    |    |    |    |    | JUNE  |    |    |    |    |    |    | SEPTEMBER |    |    |    |    |    |    | DECEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 4  | 5  | 6  | 7  | 8  | 9  | 10    |    |    |    |    |    |    |           | 1  | 2  |    |    |    |    | 1        |    |    |    |    |    |    |  |
| 11       | 12 | 13 | 14 | 15 | 16 | 17 | 10    | 11 | 12 | 13 | 14 | 15 | 16 | 9         | 10 | 11 | 12 | 13 | 14 | 15 | 9        | 10 | 11 | 12 | 13 | 14 | 15 |  |
| 18       | 19 | 20 | 21 | 22 | 23 | 24 | 17    | 18 | 19 | 20 | 21 | 22 | 23 | 16        | 17 | 18 | 19 | 20 | 21 | 22 | 16       | 17 | 18 | 19 | 20 | 21 | 22 |  |
| 25       | 26 | 27 | 28 | 29 | 30 | 31 | 24    | 25 | 26 | 27 | 28 | 29 | 30 | 23        | 24 | 25 | 26 | 27 | 28 | 29 | 23       | 24 | 25 | 26 | 27 | 28 | 29 |  |

# 1945

| JANUARY  |    |    |    |    |    |    | APRIL |    |    |    |    |    |    | JULY      |    |    |    |    |    |    | OCTOBER  |    |    |    |    |    |    |  |
|----------|----|----|----|----|----|----|-------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|----------|----|----|----|----|----|----|--|
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  | 4  | 5  | 6  | 1     | 2  | 3  | 4  | 5  | 6  | 7  | 1         | 2  | 3  | 4  | 5  | 6  | 7  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |  |
| 7        | 8  | 9  | 10 | 11 | 12 | 13 | 8     | 9  | 10 | 11 | 12 | 13 | 14 | 8         | 9  | 10 | 11 | 12 | 13 | 14 | 7        | 8  | 9  | 10 | 11 | 12 | 13 |  |
| 14       | 15 | 16 | 17 | 18 | 19 | 20 | 15    | 16 | 17 | 18 | 19 | 20 | 21 | 15        | 16 | 17 | 18 | 19 | 20 | 21 | 14       | 15 | 16 | 17 | 18 | 19 | 20 |  |
| 21       | 22 | 23 | 24 | 25 | 26 | 27 | 22    | 23 | 24 | 25 | 26 | 27 | 28 | 22        | 23 | 24 | 25 | 26 | 27 | 28 | 21       | 22 | 23 | 24 | 25 | 26 | 27 |  |
| 28       | 29 | 30 | 31 |    |    |    | 29    | 30 |    |    |    |    |    | 29        | 30 | 31 |    |    |    |    | 28       | 29 | 30 | 31 |    |    |    |  |
| FEBRUARY |    |    |    |    |    |    | MAY   |    |    |    |    |    |    | AUGUST    |    |    |    |    |    |    | NOVEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 1  | 2  | 3  |    |    |    | 1     | 2  | 3  | 4  | 5  |    |    |           | 1  | 2  | 3  | 4  |    |    | 1        |    |    |    |    |    |    |  |
| 4        | 5  | 6  | 7  | 8  | 9  | 10 | 6     | 7  | 8  | 9  | 10 | 11 | 12 | 5         | 6  | 7  | 8  | 9  | 10 | 11 | 4        | 5  | 6  | 7  | 8  | 9  | 10 |  |
| 11       | 12 | 13 | 14 | 15 | 16 | 17 | 13    | 14 | 15 | 16 | 17 | 18 | 19 | 12        | 13 | 14 | 15 | 16 | 17 | 18 | 11       | 12 | 13 | 14 | 15 | 16 | 17 |  |
| 18       | 19 | 20 | 21 | 22 | 23 | 24 | 17    | 18 | 19 | 20 | 21 | 22 | 23 | 16        | 17 | 18 | 19 | 20 | 21 | 22 | 16       | 17 | 18 | 19 | 20 | 21 | 22 |  |
| 25       | 26 | 27 | 28 | 29 | 30 | 31 | 24    | 25 | 26 | 27 | 28 | 29 | 30 | 23        | 24 | 25 | 26 | 27 | 28 | 29 | 23       | 24 | 25 | 26 | 27 | 28 | 29 |  |
| MARCH    |    |    |    |    |    |    | JUNE  |    |    |    |    |    |    | SEPTEMBER |    |    |    |    |    |    | DECEMBER |    |    |    |    |    |    |  |
| S        | M  | T  | W  | T  | F  | S  | S     | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  |  |
|          | 4  | 5  | 6  | 7  | 8  | 9  | 10    |    |    |    |    |    |    |           | 1  | 2  |    |    |    |    | 1        |    |    |    |    |    |    |  |
| 11       | 12 | 13 | 14 | 15 | 16 | 17 | 10    | 11 | 12 | 13 | 14 | 15 | 16 | 9         | 10 | 11 | 12 | 13 | 14 | 15 | 9        | 10 | 11 | 12 | 13 | 14 | 15 |  |
| 18       | 19 | 20 | 21 | 22 | 23 | 24 | 17    | 18 | 19 | 20 | 21 | 22 |    |           |    |    |    |    |    |    |          |    |    |    |    |    |    |  |

BOARD OF TRUSTEES  
THE AGRICULTURAL AND TECHNICAL COLLEGE

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|--------------------------|--------------------|
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| SHELLEY B. CAVENESS..... | Greensboro, N. C.  |

## OFFICERS OF ADMINISTRATION AND INSTRUCTION

### THE AGRICULTURAL AND TECHNICAL COLLEGE

#### Officers of Administration

|                                            |                                                        |
|--------------------------------------------|--------------------------------------------------------|
| FERDINAND D. BLUFORD, A.B., B.Ped., D.Ped. | President                                              |
| *WARMOTH T. GIBBS, A.B., Ed.M.             | Dean, School of Education and Sciences                 |
| JERALD M. MARTEENA, B.M.E., M.S.           | Dean, School of Mechanic Arts                          |
| JOHN C. McLAUGHLIN, B.S.A., M.S.           | Dean, School of Agriculture                            |
| E. RAY HODGIN                              | Secretary-Treasurer                                    |
| WILLIAM H. GAMBLE, B.S.                    | Dean of Men                                            |
| R. E. JONES                                | Director, Agricultural Extension                       |
| W. L. KENNEDY, B.S., M.S., Ph.D.           | Director of Graduate Work                              |
| ALMA I. MORROW, A.B., B.S., in Lib. Sc.    | Librarian                                              |
| MARGARET A. SIMMONS, B.S., M.A.            | Dean of Women                                          |
| SIDNEY B. SIMMONS, B.S.A.                  | Director, Vocational Agriculture                       |
| SAMUEL C. SMITH, B.S., M.S.                | Assistant State Sup. of Trade and Industrial Education |
| L. A. WISE, B.S.C., M.A.                   | Registrar                                              |
| NATHANIEL C. WEBSTER                       | Bursar                                                 |

#### Associates and Assistants of Administration

|                                        |                                                                         |
|----------------------------------------|-------------------------------------------------------------------------|
| EUPHREY T. BIGELOW, B.S.               | Secretary to the President                                              |
| JAMES BRIGHT                           | Assistant Dietitian                                                     |
| F. J. BROWN, B.S.                      | Assistant State Supervisor of Vocational Training for War Workers       |
| ROBERT LEE CAMPBELL, D.S.C.            | Assistant Dean of Men                                                   |
| MAUDE COLEMAN                          | House Directress                                                        |
| THELMA COLMAN, B.A.                    | Dietitian                                                               |
| F. E. DAVIS, M.D.                      | College Physician                                                       |
| CHARLES CONSTANTINE DEAN, B.S., B.L.S. | Assistant Registrar                                                     |
| ELIZABETH GIBBS, B.S.                  | Assistant Librarian                                                     |
| ALLISON GORDON, B.S.                   | Secretary to Dean, School of Mechanic Arts                              |
| MARTIN F. HOLT                         | Superintendent of Farms                                                 |
| C. A. IRVIN                            | Director of Public Relations                                            |
| MARGARET MOORE                         | Secretary to the Bursar                                                 |
| ELLEN T. REEVES                        | Secretary to the Assistant State Sup. of Trade and Industrial Education |
| BETTIE SIMMONS                         | Secretary to Director of Vocational Agriculture                         |
| SAMUEL THOMAS                          | Superintendent of Buildings                                             |
| ALLIE LEE THOMPSON, B.S.               | Secretary to Dean, School of Education and Sciences                     |
| CATHERINE D. TRUESDELL                 | Secretary to the Registrar                                              |
| THELMA WADELL, B.S.                    | College Nurse                                                           |
| MARGARET WILSON, B.S., R.N.            | College Nurse                                                           |
| ETHEL WINGO, B.S.                      | Assistant Dietitian                                                     |

\* Leave of absence, May, 1943-April, 1944; A. Russell Brooks served as Acting Dean.

### Officers of Instruction

**FERDINAND D. BLUFORD**.....1007 Lindsay Street  
*President of the College*

A.B., Virginia Union University, 1908; B.Ped., Howard University, 1909; Graduate work Columbia University, 1924; D.Ped., Virginia Union University, 1926. Dean, Agricultural and Mechanical College of Alabama, 1909-1910; Professor of Education, Kentucky State College, 1910-1911; Professor of English, St. Paul Normal and Industrial School, 1911-1912; Professor of English, A. and T. College, 1912-1918; Dean, A. and T. College, 1918-1925; Present position since 1925.

### PROFESSORS

**HUGHEY ROBINSON ARNETTE**.....1308 Lindsay Street  
*Education and Psychology*

B.A., College of Puget Sound, 1931; M.A., Columbia University, 1932; Formal requirements for Ph.D. completed, University of Pennsylvania, 1942; Professor of Education and director of teacher-training, Arkansas State College, 1932-1933; Assistant State Supervisor of Adult Education, State of Washington, 1933-1936; Professor of Education and Psychology, Philander Smith College, 1936-1937. Present position since 1937.

**ANDREW C. BOWLING**.....807 Logan Street  
*Electrical Engineering*

B.S. in E.E., Bucknell University, 1928; M.S., Ohio State University, 1933; Present position since 1928.

**COLERIDGE ALEXANDER BRAITHWAITE**.....223 Gatson Street  
*Music*

A.B., Harvard College, 1939; M.A., ibid., 1941; Instructor in Music, Fisk University, 1940-41; Completed residence requirements for Ph.D., Harvard University, 1942. Present position since 1943.

**A. RUSSELL BROOKS**.....901 Lindsay Street  
*English*

B.A., Morehouse College, 1931; M.A. University of Wisconsin, 1934; Summer Lectures, Cambridge University, England, 1936; Study toward the Ph.D. degree, University of Edinburgh, 1938-1939; Independent research in relation to the doctorate, 1939-40; Instructor in English, Atlanta University Laboratory High School, 1932-33; Present position since 1934, and Acting Dean, School of Education and Sciences, 1943-1944.

**CHARLES L. COOPER**.....1021 Lindsay Street  
*Industrial Education*

B.S., Hampton Institute, 1926; M.S., Cornell University, 1928; Ph.D., ibid., 1935; Teacher of Industrial Arts and Mechanical Drawing in the City Schools of Greensboro, N. C. Present position since 1930.

**CAROLYN E. CRAWFORD**.....College Campus  
*Home Economics*

B.S., Columbia University, 1932; M.S., Columbia University, 1933; Instructor, Prairie View State College, 1929-1931. Present position since 1933.

**RAYMOND F. EDWARDS, Lt. Col. Inf.**.....108 Arden Place  
*Military Science and Tactics*

A.B., University of Kansas, 1915; Advanced course, Infantry School, 1931; Professor of Military Science and Tactics, University of Kansas, 1936-1940. Present position since 1942.

**WARMOTH T. GIBBS**.....420 N. Dudley Street  
*History and Political Science*

A.B., Harvard University, 1917; Ed.M., ibid., 1926; Completed residence requirements for Ph.D., ibid., 1933; Professor of History 1926-1929; Dean, School of Education and Sciences, 1929-1943; Leave of Absence, May, 1943-April, 1944.

**HARRY J. GREEN**.....901 Benbow Road  
*Chemical Engineering*

B.Chem.E., Ohio State, 1932; M.S., Chem. Eng., Massachusetts Institute of Technology, 1938; Ph.D. in Chem. Eng., Ohio State University, 1943. Present position since 1934.

**WADARAN L. KENNEDY**.....A. and T. College Farm  
*Dairy Husbandry*

B.S., University of Illinois, 1927; M.S., ibid., 1929; Ph.D., Pennsylvania State College, 1936; Professor of Animal Husbandry, Virginia State College, 1929-1931; Assistant Professor of Animal Husbandry, Langston University, 1931-1933; Graduate Scholar in Dairy Husbandry, The Pennsylvania State College, 1933-1936. Present position since 1936.

**JERALD M. MARTEENA**.....1900 Gorrell Street  
*Mathematics and Mechanical Engineering*

B.M.E., Ohio State University, 1928; M.S., University of Michigan, 1932; Completed residence requirements for Ph.D., University of Michigan, 1933; Professor of Mathematics, A. and T. College, 1929-1931. Present position since 1933.

**ROBERT E. MARTIN**.....222 N. Regan Street  
*History and Economics*

B.A., Howard University, 1936; M.A., ibid., 1938; Completed residence for Ph.D. degree at the University of Chicago, 1942; Instructor in Political Science, Howard University, 1942-43. Present position since 1939.

**JOHN C. McLAUGHLIN**.....910 Benbow Road  
*Agricultural Economics and Rural Sociology*

B.S.A., A. and T. College, 1931; M.S., Cornell University, 1932; Alcorn A. and M. College, 1932-1937. Present position since 1937.

**WAVERLY NATHANIEL RICE, JR.**.....1504 Gorrell Street  
*French and Spanish*

A.B., Morehouse College, 1935; Diplome pour l'enseignement du français à l'étranger, University of Toulouse, France, 1936; Docteur de l'Université de Toulouse (Lettres), 1937. Present position since 1939.

**C. L. SPELLMAN**.....502 Benbow Road  
*Agronomy*

B.S.A., A. and T. College, 1928; M.S., Oregon State College, 1932; Ph.D., Cornell University, 1942; Special work, Iowa State College, 1942; Vocational Agriculture Teacher, Berry O'Kelly Training School, Method, N. C., 1928-31; Assistant Professor of Poultry Husbandry, A. and T. College, 1932-35; County Agent, Wilson, N. C., 1935-40. Present position since 1942.

**HUBERT MACK THAXTON**.....1526 McConnell Road  
*Physics and Mathematics*

B.S., Howard University, 1931; M.S., ibid., 1933; M.A., University of Wisconsin, 1935; Ph.D., ibid., 1937. Present position since 1942.

**MYRON B. TOWNS**.....403 N. Dudley Street  
*Chemistry*

A.B., Atlanta University, 1930; M.A., University of Michigan, 1933; Ph.D., University of Michigan, 1942. Present position since 1936.

### ASSOCIATE PROFESSORS

**MARGARET W. BOLDEN**.....College Campus  
*Home Economics*

A.B., University of Illinois; M.A., ibid., present position since 1936.

**C. R. A. CUNNINGHAM**.....1110 E. Market Street  
*Biology*

B.S., University of Illinois, 1929; M.S., ibid., 1930; Instructor, Tennessee State College, 1930-1931; Georgia Normal and Agricultural College, 1931-1934. Present position since 1934.

CLARENCE E. DEAN.....Sedalia, N. C.

*Agricultural Education*

B.S., Hampton Institute, 1924; M.S., Iowa State College, 1930; Berry O'Kelly Training School, 1926-1930. Present position since 1930.

CHARLES U. DEBERRY.....409 N. Dudley Street

*Physical Education—Head Coach*

B.S., A. and T. College; A.B., New York University; M.S., New York University; Residential work for Ph.D., completed, *ibid.*, Supervising Principal, Madison City Administrative Unit, and Coach of Athletics. Present position since 1942.

DONALD A. EDWARDS.....416 Stewart Street

*Physics*

A.B., Talladega College; M.S., University of Chicago, 1931; Candidate for Ph.D., University of Chicago; Instructor at Prairie View College, 1935-1936; Louisville Municipal College, 1936-42. Present position since 1942.

✓ ARTHUR W. FERGUSON, Capt. Inf.....913 Lindsay Street

*Military Science and Tactics*

B.S., Arch., Howard University; Instructor at Howard University; A. and T. College; Formerly with 366th Inf. Present position since 1942.

BENJAMIN F. GARRETT.....College Farm

*Poultry Husbandry*

B.S., Hampton Institute; M.S., University of Illinois; Instructor at Alcorn College; Instructor at Florida A. and M. College. Present position since 1939.

✓ JOHN C. HARLAN, Capt. Inf.....417 N. Dudley Street

*Military Science and Tactics*

A.B., Howard University, 1929; M.A., Cornell University, 1931; Professor of History and Government, Shaw University. Present position since 1942.

CARL McCLELLAND HILL.....1013 Benbow Road

*Chemistry and Science*

B.S., Hampton Institute, 1931; M.S., Cornell University, 1935; Ph.D., *ibid.*, 1941; Special Graduate Study at University of Pennsylvania, summers of 1938, 1939, 1940; Assistant Professor of Chemistry, George P. Phenix School and College Division, Hampton Institute, 1931-1940; Director of George P. Phenix School, 1940-1941. Present position since 1941.

M. CLINTON TAYLOR.....222 Regan Street

*Fine Arts*

B.F.A., Syracuse University, 1927; M.A., Columbia University; Further graduate study, Columbia University, 1935. Present position since 1927.

LUNABELLE WEDLOCK.....303 Beech Street

*Social Science*

A.B., Howard University; A.M., Howard University; Additional year of study, Howard University; Graduate study, Summer, 1942; American University; Instructor in Social Science, Howard University, Spring, 1942. Present position since 1942.

**ASSISTANT PROFESSORS**

\*VIRGIL A. CLIFT.....403 N. Dudley Street

*Education*

A.B., Indiana University, 1934; M.A., Indiana State College, 1939; Instructor of Education and History, Rust College, 1939-1940. Present position since 1940.

RUDOLPH GRANDY.....903 Lindsay Street

*Biological Sciences*

B.S., A. and T. College; Cornell University, further study; Instructor in Horticulture Southern University, Scotlandville, La. Present position since 1942.

\* Absent for further study, 1942-1944.

|                                   |                                                                                                                                                                                                                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CARRYE V. HILL.....               | 141 Beech Street<br><i>English and History</i>                                                                                                                                                                                                                                                          |
|                                   | B.S., A. and T. College; M.A., University of Pennsylvania, 1939. Present position since 1936.                                                                                                                                                                                                           |
| WILLIS JACKSON.....               | 115 Obermeyer Street<br><i>Mathematics and Mechanical Engineering</i>                                                                                                                                                                                                                                   |
|                                   | B.S., in Mechanical Engineering, University of Michigan, 1931; Research Engineer, Wayne County, Michigan, Assessment Project, 1933-1935. Present position since 1936.                                                                                                                                   |
| BERNARD LEE MASON.....            | 913 Lindsay Street<br><i>Director of Music</i>                                                                                                                                                                                                                                                          |
|                                   | Mus.B., Oberlin Conservatory, 1933; Graduate study, ibid., and the University of Michigan. Present position since 1934.                                                                                                                                                                                 |
| FLOYD A. MAYFIELD.....            | 1208 Gorrell Street<br><i>Architecture</i>                                                                                                                                                                                                                                                              |
|                                   | B.S., in Architecture, Howard University; Two years of graduate study at the University of Michigan, 1935-37. Present position since 1930.                                                                                                                                                              |
| ARCHIBALD HALDANE MORROW.....     | College Campus<br><i>Physical Education and Assistant Coach</i>                                                                                                                                                                                                                                         |
|                                   | B.S., A. and T. College; Fayetteville, N. C., State Teachers College, S.S., Elizabeth City, N. C., Smith High School, Fayetteville, N. C. Present position since 1942.                                                                                                                                  |
| BEVERLY N. ROBERTS.....           | 115 Obermeyer Street<br><i>English</i>                                                                                                                                                                                                                                                                  |
|                                   | A.B., Benedict College, 1932; M.A., New York University, 1934; Further graduate study, New York University, 1934; Teacher, New York City Public Schools, 1935-1936. Present position since 1936.                                                                                                        |
| MARGARET A. SIMMONS.....          | Annie Holland Hall<br><i>Social Sciences</i>                                                                                                                                                                                                                                                            |
|                                   | Diploma, Barber-Scotia Junior College, 1937; B.S., School of Education, New York University, 1939; M.A., New York University, 1940; Instructor of Social Sciences, Gillespie-Selden Institute, Cordele, Ga. Present position since 1942.                                                                |
| MYRTLE E. THOMPSON.....           | Nursery School<br><i>Director of Nursery School</i>                                                                                                                                                                                                                                                     |
|                                   | B.A., Dillard University; M.E., University of Cincinnati; Director of Friendship Nursery School, Cincinnati, Ohio, 1931-1940; Director of Bennett College Nursery School, 1940-1942. Present position since 1942.                                                                                       |
| EDWIN W. TURNER, 2nd Lt. Inf..... | 422 N. Dudley Street<br><i>Military Science and Tactics</i>                                                                                                                                                                                                                                             |
|                                   | A.B., Texas College, 1936; M.A., University of Michigan, 1939; Assistant Coach and Physical Education Instructor at Texas College, 1935-36; Coach and Instructor at Bruce High School, Gilmer, Texas, 1937-1942; Graduate of Infantry School, Fort Benning, Georgia, 1943. Present position since 1943. |
| LLEWELLYN A. WISE.....            | 422 N. Dudley Street<br><i>Business</i>                                                                                                                                                                                                                                                                 |
|                                   | B.S.C., New York University, 1928; M.A., Atlanta University, 1934. Present position since 1928.                                                                                                                                                                                                         |

### INSTRUCTORS

|                           |                                                                                                                                                                          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THOMAS EDISON CONWAY..... | 1063 N. 6th Street<br><i>Mathematics</i>                                                                                                                                 |
|                           | B.S., E.E., A. and T. College; Instructor of Mathematics and Physics, Louishburg, N. C.; Inspector, Ordnance Department and Anti-Air Craft. Present position since 1942. |

VINCENT A. BURGESS.....126 Laurel St.  
*Electrical Engineering*

B.S., A. and T. College; Research work at Bridgeport Engineering Institute and University of Main. Present position since 1942.

WILLIAM H. GAMBLE.....College Campus  
*Education*

B.S., A. and T. College, 1938; Further study, University of Pittsburgh; Assistant to the Registrar, A. and T. College, 1938-1940; Dean of Men and Instructor of Education. Present position since 1940.

CHARLES G. GREEN.....901 Lindsay Street  
*English and Dramatics*

B.A., State University of Iowa, 1937; Further graduate work, ibid. Present position since 1938.

KARL MARTIN KEYES.....430 N. Dudley Street  
*Rural Engineering*

B.S., A. & T. College, 1938; Graduate study at A. and T. College, 1940-1941; Instructor of Vocational Agriculture, Ellerbe High School, 1938-1940; Instructor of Vocational Agriculture, Pitt County Training School, Grimesland, N. C., 1940-1942. Present position since 1942.

W. T. JOHNSON.....506 Logan Street  
*Rural Engineering*

B.S., A. and T. College, 1932; Teacher of Vocational Agriculture and Manual Training, Spring Hope High School, Spring Hope, N. C., 1932-1937. Further study, Purdue University. Present position since 1937.

VERNELL McCOY.....416 Stewart St.  
*Physical Education*

B.S. in Physical Education, Virginia State College, 1941; Graduate Study, New York University. Present position since 1944.

VEDA J. STROUD.....149 Beech Street  
*Business Administration*

B.S., A. and T. College; Secretary to the Dean of the School of Education and Sciences, A. and T. College, 1939-1940. Present position since 1942.

HENRI M. WESTERBAND.....221 N. Dudley St.  
*Carpentry*

B.S., West Virginia State College, 1926. Present position since 1942.

### FACULTY OF THE VOCATIONAL SCHOOL

JERALD M. MARTEENA.....1900 Gorrell Street  
*Director*

B.M.E., Ohio State University, 1928; M.S., University of Michigan, 1932; Completed residence requirements for Ph.D., ibid., 1933. Professor of Mathematics, A. and T. College, 1929-1931. Licensed engineer State of N. C. Present position since 1933.

ANDREW C. BOWLING.....807 Logan Street  
*Electrical Wiring*

B.S., Bucknell University, 1928; M.S., Ohio State University, 1933. Present position since 1928.

CHARLES L. COOPER.....1021 Lindsay Street  
*Building Construction*

B.S., Hampton Institute, 1924; M.S., Cornell University, 1926; Ph.D., ibid., 1935. Present position since 1930.

CLYDE DEHUGULEY.....360 West Bragg Street  
*Shoe Repairing, Leather Work and Laundry Management*

Graduate, Tuskegee Institute, 1922; Instructor in shoe repairing, Kentucky State College, 1922-1924. Present position since 1924.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H. R. HUMPHREY.....       | 113 N. Obermeyer Street<br><i>Plumbing</i>                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                           | B.S., A. and T. College, 1937; Custodian of Buildings at A. and T. College, 1938-41. Present position since 1941.                                                                                                                                                                                                                                                                                                                                            |
| WILLIS JACKSON.....       | 127 N. Obermeyer Street<br><i>Machine Shop</i>                                                                                                                                                                                                                                                                                                                                                                                                               |
|                           | B.S. in M.E., University of Michigan, 1931; Research engineer, Wayne County, Michigan Assessment Project, 1933-1935. Present position since 1936.                                                                                                                                                                                                                                                                                                            |
| KARL MARTIN KEYES.....    | 439 N. Dudley Street<br><i>Agricultural Engineering</i>                                                                                                                                                                                                                                                                                                                                                                                                      |
|                           | B.S., A. and T. College, 1938; Graduate study at A. and T. College, 1940-1941; Instructor of Vocational Agriculture, Ellerbe High School, 1938-1940; Instructor of Vocational Agriculture, Pitt County Training School, Grimesland, N. C., 1940-1942. Present position since 1942.                                                                                                                                                                           |
| FLOYD A. MAYFIELD.....    | 1208 Gorrell Street<br><i>Mechanical and Architectural Drawing</i>                                                                                                                                                                                                                                                                                                                                                                                           |
|                           | B.S. in Architecture, Howard University, 1930; Graduate study, University of Michigan, 1935-1937. Present position since 1930.                                                                                                                                                                                                                                                                                                                               |
| WALLACE L. MITCHELL.....  | College Campus<br><i>Carpentry</i>                                                                                                                                                                                                                                                                                                                                                                                                                           |
|                           | B.S., Shaw University, 1931; B.S., A. and T. College, 1935. Present position since 1935.                                                                                                                                                                                                                                                                                                                                                                     |
| ROBERT S. POOLE.....      | College Campus<br><i>Tailoring and Designing</i>                                                                                                                                                                                                                                                                                                                                                                                                             |
|                           | Hampton Institute, 1911; Mitchell School of Designing, 1916; Instructor, Edward Waters Institute, 1917-1920; Business, 1920-1926. Present position since 1926.                                                                                                                                                                                                                                                                                               |
| GEO. A. RODDY.....        | 120 Laurel Street<br><i>Automobile Mechanics</i>                                                                                                                                                                                                                                                                                                                                                                                                             |
|                           | B.S. and M.E., University of Iowa, 1931; Instructor at Arkansas State College, 1932-1934. Present position since 1935.                                                                                                                                                                                                                                                                                                                                       |
| DAVID G. SPELLER.....     | 213 Marshall Street<br><i>Tailoring</i>                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                           | Certificate, A. and T. College, 1936; Business, 1938-1939; Religious Director, Hayes-Taylor Memorial Y. M. C. A., Greensboro, N. C., 1939-1941; Acting Pastor New Zion Baptist Church, Greensboro, N. C., 1941; Assistant Pastor, Ebenezer Baptist Church, Portsmouth, Va., Summer, 1942; Acting Pastor, First Congregational Church, Greensboro, N. C., 1943; Assistant Instructor in tailoring, A. and T. College since 1940. Present position since 1941. |
| VEDA SPELLMAN STROUD..... | 149 Beech Street<br><i>Business Administration</i>                                                                                                                                                                                                                                                                                                                                                                                                           |
|                           | B.S., A. and T. College, Secretary to the Dean of the Department of Education and sciences, A. and T. College, 1939-1942. Present position since 1942.                                                                                                                                                                                                                                                                                                       |
| DALRYMPLE SYSNETTE.....   | 507 Gorrell Street<br><i>Bricklaying, Plastering, Cement Construction</i>                                                                                                                                                                                                                                                                                                                                                                                    |
|                           | B.S., A. and T. College, 1938; Hampton Institute Trade School, 1932; Instructor, Danbury School, Danbury, N. C., 1939-1940; Vocational Instructor, National Defense, A. and T. College, 1940; Vocational Instructor, Second Ward High School, Charlotte, N. C., 1941-1942. Present position since 1942.                                                                                                                                                      |
| LLEWELLYN A. WISE.....    | 422 N. Dudley Street<br><i>Stenography and Typewriting</i>                                                                                                                                                                                                                                                                                                                                                                                                   |
|                           | B.S.C., New York University, 1928; M.A., Atlanta University, 1933. Present position since 1928.                                                                                                                                                                                                                                                                                                                                                              |

### Agricultural Extension Service Personnel

|                               |                                                                      |
|-------------------------------|----------------------------------------------------------------------|
| R. E. JONES, B.S., M.S.....   | <i>State Director Extension Agents</i>                               |
| J. W. JEFFRIES.....           | <i>Assistant Director Extension Agents</i>                           |
| DAZELLE F. LOWE, B.S.....     | <i>District Home Agent, Western District</i>                         |
| OTIS BUFFALO, B.S.A.....      | <i>District Farm Agent, Northeastern District</i>                    |
| FANNIE T. NEWSOME, B.S.....   | <i>District Home Agent, Northeastern District</i>                    |
| JOHN A. SPAULDING, B.S.A..... | <i>District Farm Agent, Southeastern District</i>                    |
| WILHELMENA R. LAWS, B.S.....  | <i>Emergency Negro Extension Supervisor, Southeastern District</i>   |
| H. BLANCHE STEPHENS.....      | <i>Secretary to Extension Supervisors</i>                            |
| WILLIE B. WEAVER, B.S.....    | <i>Secretary to Extension Supervisors</i>                            |
| GLADYS S. RUFFIN.....         | <i>Secretary to Extension Supervisors</i>                            |
| W. C. DAVENPORT, B.S.A.....   | <i>Assistant Administrative Officer, Farm Security Administrator</i> |
| BERTRAND B. HALL, B.S.A.....  | <i>County Agent, Guilford County</i>                                 |
| ROSA T. WINCHESTER, B.S.....  | <i>Home Agent, Guilford County</i>                                   |

### Officers of Army Administration

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| RAYMOND F. EDWARDS, Lt. Col., Infantry..... | <i>PMS&amp;T., Commanding Officer</i>                |
| JOSEPH H. COOPER, Major, Infantry.....      | <i>Commander of Troops</i>                           |
| WILLIAM SONNIER, Captain, A. G. D.....      | <i>Classification Officer</i>                        |
|                                             | <i>ASTP-STAR</i>                                     |
| ARTHUR W. FERGUSON, Captain, Infantry.....  | <i>Prin. Asst. PMS&amp;T., Plans and Train. Off.</i> |
| JAMES B. GIBBS, Captain, O.R.D.....         | <i>Company Commander</i>                             |
|                                             | <i>ASTP-STAR</i>                                     |
| JOHN C. HARLAN, Captain, Infantry.....      | <i>Asst. PMS&amp;T., Intelligence Off.</i>           |
| GARNETT G. OVERBY, 1st Lt., Infantry.....   | <i>Adjutant</i>                                      |
| TAFT CUMMINGS, 1st Lt., QMC.....            | <i>Quartermaster</i>                                 |
| SAMUEL C. EVANS, 2nd Lt., A.G.D.....        | <i>Asst. Class. Off. ASTP-STAR</i>                   |
| WALTER E. BELL, 2nd Lt., B.I.....           | <i>Statistician ASTP-STAR</i>                        |
| ROBERT J. BLANTON, 2nd Lt., A.G.D.....      | <i>Asst. Class. Off. ASTP-STAR</i>                   |
| EDWIN W. TURNER, 2nd Lt., Infantry.....     | <i>Company Commander</i>                             |
|                                             | <i>ASTP-ROTC</i>                                     |
| LEROSS A. ROOKER, Master Sergeant.....      | <i>First Sergeant</i>                                |
| ISAAC BRAXTON, Master Sergeant.....         | <i>QM Supply</i>                                     |
| JOHNNY L. STIGGERS, Master Sergeant.....    | <i>Sergeant Major</i>                                |
| LAFAYETTE V. SIMPSON, Staff Sergeant.....   | <i>Interviewer, ASTP-STAR</i>                        |
| SIMPSON WHITE, Corporal.....                | <i>Clerk ROTC</i>                                    |
| BERNARD LEE MASON, Mus. B.....              | <i>ROTC Band Director</i>                            |
| WARMOTH T. GIBBS, A.B., Ed.M.....           | <i>ASTP Educational Advisor</i>                      |
| HUGHEY R. ARNETTE, A.B., M.A.....           | <i>Coordinator ASTP-STAR</i>                         |
| JERALD M. MARTEENA, B.M.E., M.S.....        | <i>Tech. Advisor ASTP-STAR</i>                       |
| JESSIE D. GAMBLE, B.S.....                  | <i>Military HQ Stenographer-Clerk</i>                |
| MAE C. HALL, A.B.....                       | <i>ASTP-STAR Chief Clerk</i>                         |

## HISTORY OF THE COLLEGE

This College was established by an act of the General Assembly of North Carolina, ratified March 9, 1891. The object of the institution is declared by the act to be for instruction in practical agriculture, the mechanic arts and such branches of learning as related thereto, not excluding academic and classical instruction.

The citizens of Greensboro donated fourteen acres of land and \$11,000 to be used in the construction of buildings. In 1893 this was supplemented by an appropriation of \$10,000 by the General Assembly. Dudley Hall was completed in 1893 and the school opened in the fall of that year at Greensboro. Previously, it had operated in connection with Shaw University in Raleigh, N. C.

The management and control of the College and the care and preservation of all its property are vested in a Board of Trustees, consisting of fifteen members, who are elected by the General Assembly, or appointed by the Governor, for a term of six years.

The Trustees, by the act of the Legislature, have power to prescribe rules for the operation of the College; to elect the president, instructors, and as many other officers and assistants as they shall deem necessary; and have general and entire supervision of the establishment and maintenance of the College.

The financial support of the College for the payment of salaries and purchase of apparatus and equipment is derived from the United States, under an Act of Congress, known as the Morrill Act, passed August 20, 1890. This act makes an annual appropriation for each State and Territory for the endowment and support of colleges for the benefit of agriculture and mechanic arts, to be applied "only to instruction in agriculture, the mechanics arts, the English language and the various branches of mathematics, physical, natural, and economic sciences, with special reference to their application in the industries of life and the facilities of their instruction."

The College also receives an appropriation from the State for general maintenance, which cannot be provided for under the laws governing the use of Federal appropriations.

**THE COLLEGE BUILDINGS****DUDLEY MEMORIAL BUILDING**

On January 27, 1930, the original Dudley Hall was destroyed by fire. The erection of the New Dudley Hall was undertaken immediately thereafter. February 15, 1931, it was occupied. This is a fine fireproof structure of three stories, larger than the old building and better suited to meet the needs of a modern college. It contains classrooms, assembly room, library, offices for the President, Dean of the School of Education and Sciences, Treasurer, Registrar, Bursar, and other administrative officers.

**LIBRARY**

The Library occupies the entire second floor of the New Dudley Administration Building. It contains 29,000 volumes and 3,500 pamphlets, and receives 201 current periodicals, representing various departments of the College and 23 newspapers. Books have been carefully selected with a view to facilitating instruction and research.

All students registered in the College are entitled to full reference use of the Library. Subject to certain necessary library rules and regulations, students may withdraw books for home use. The Bursar's receipt, bearing the signature of the student, must be presented as identification.

**Library Hours:** The Library is open Monday through Friday from 7:50 a.m. to 5:00 p.m. and 6:30 to 9:00 p.m. except Saturday, when the hours are from 9:00 a.m. to 12:00 m. and 1:30 to 4:30 p.m.

**NORTH DORMITORY**

The North Dormitory is a three-story building which contains rooms for about 70 students.

**MORRISON HALL**

Morrison Hall is a fireproof, three-story building with basement. It contains rooms for 130 students.

**ANNIE W. HOLLAND HALL**

Annie W. Holland Hall is a new dormitory for women. It was completed in 1938 and is named in honor of Mrs. Annie W. Holland, who for a long period was State Supervisor of Colored Elementary schools in North Carolina. The building is fireproof and is located in one of the most beautiful sections of the campus. It is constructed to house 155 students.

**THE COLLEGE BUILDINGS RENAMED**

By a special vote of the Board of Trustees in its annual meeting for 1933, the following changes in the names of buildings were made: the Agricultural Building became Noble Hall in recognition of the distinguished services of the late Chairman of the Board of Trustees, and the Mechanics Building became Crosby Hall in honor of the first president of the College.

**VANSTORY HALL**

Vanstory Hall, formerly known as the South Dormitory, is a three-story, brick building, which contains rooms for 92 students. The basement is used for storerooms.

**NOBLE HALL**

Noble Hall is a fireproof, three-story structure, with basement. It contains laboratories for botany, dairy products, zoology, geology, chemistry and classrooms and offices for the Dean, School of Agriculture, and the heads of divisions.

**CROSBY HALL**

Crosby Hall, one of the few remaining historic buildings on the campus, is a three-story structure. It houses on the ground floor the Department of Masonry Construction. The first floor contains the Departments of Business Administration and Tailoring. The spacious second floor houses the Departments of Fine Arts, Architecture and Mechanical Drawing.

**ALEXANDER GRAHAM HALL**

The Alexander Graham Hall is a three-story, fireproof structure located near U. S. Highway No. 70. The building was constructed in 1939 with funds appropriated by the State and

the Federal Emergency Administration of Public Works and contains the following laboratories and shops: Physics, Photography and Visual Education, and Engineering, Laboratories, Industrial Arts, Auto-Mechanics, Shoe Repairing, Machine Shop, Plumbing and Heating, Welding and Carpentry Shops. The office of the Dean of the School of Mechanic Arts is also located in this building.

#### **RICHARD B. HARRISON AUDITORIUM**

The Richard B. Harrison Auditorium, completed in 1940, takes its name in honor of the noted actor and teacher who gained world renown as "De Lawd" in the great stage production of 1930, *The Green Pastures*. Previously Richard B. Harrison had been well and favorably known to the students and constituents of the A. and T. College as teacher of dramatics and public speaking, a position he had held for a number of years and relinquished to accept the part in the play mentioned above.

This auditorium, one of the largest and best equipped of its kind in the state, contains in addition, special rooms for dramatics, band and music classes, and offices for the music and dramatic departments. It is the center for public programs, religious services and extracurricular activities.

#### **THE COLLEGE GYMNASIUM**

The College Gymnasium is a one-story fireproof structure located on East Market Street, which is United States Highway No. 70, the main thoroughfare connecting eastern and western Carolina. This building is used for physical education classes and extracurricular activities for both men and women. The large seating space and the stage make it possible for it to be used also as an auditorium for public programs and other civic activities.

#### **MURPHY HALL**

Murphy Hall is a one-story fireproof building, which contains the cafeteria, the kitchen, and the refrigeration plant. The cafeteria has seating capacity for 800 students. It is one of the most beautiful buildings of its kind to be found in the State.

**FLORENCE GARRETT PRACTICE HOUSE**

The Florence Garrett House is the new home economics practice house. The building was named in honor of Mrs. Florence Garrett, who was among the first women students to attend the College, and who bequeathed her small estate to the College as a beginning of an endowment. It is a two-story brick structure, conveniently located and adequately constructed to meet the needs of the home economics students.

**POWER PLANT**

A new central heating and power plant has recently been installed containing boiler capacity of 330 horsepower and affords the students of mechanical engineering the opportunity of practical experience in boiler-room operation and management. Attached to the power plant is a modern steam laundry with most modern equipment.

NOTE: Other equipment and buildings are described in special sections dealing with the Schools of Agriculture and Mechanic Arts.

## GENERAL INFORMATION

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### ADMISSION TO COLLEGE

High school graduates may qualify for admission by any one of the following methods:

1. Entrance examination conducted by the College.
2. Examination conducted by the College Entrance Board.
3. Certificate from an accredited high school.

Students who desire admission to the Freshman Class by certificate may show that they have completed fifteen (15) units of high school work as follows:

Six units required from Group I.

As many as ten units may be elected from Group II.

As many as six units may be elected from Group III.

| <i>Required</i>         |              |                       |                  |
|-------------------------|--------------|-----------------------|------------------|
| <i>Group I</i>          | <i>Units</i> | <i>Group II</i>       | <i>Electives</i> |
| 1. English .....        | 3            | 1. Science (aNatural) |                  |
| 2. Mathematics .....    | 2            | 2. Social science     |                  |
| 3. Social Science ..... | 1            | 3. English            |                  |
|                         |              | 4. Mathematics        |                  |
| <i>Group III</i>        |              | <i>Electives</i>      |                  |
| 1. Agriculture          |              |                       |                  |
| 2. Art                  |              |                       |                  |
| 3. Commercial subjects  |              |                       |                  |
| 4. Home economics       |              |                       |                  |
| 5. Industrial arts      |              |                       |                  |
| 6. Music                |              |                       |                  |
| 7. Mechanics            |              |                       |                  |
| 8. Foreign language     |              |                       |                  |

NOTE: Not more than three units from any subject in Group II and two units from any subject in Group III will be accepted in the fifteen (15) units of work.

A unit of work in the above requirements is approximately a fourth of a year's work in a secondary school. It is assumed that study is pursued for four or five periods a week; that the recitation periods are from forty to sixty minutes in length; and that the length of the school year is nine months.

**CLASSIFICATION OF NEW STUDENTS****1. Freshmen.**

- a. Graduates from high schools will receive entrance rating according to the standing of their respective schools.
- b. If the student is not a graduate of an accredited high school, he must comply with the requirements by examination. Entrance examinations will be held at the College on September 21, 1944.
- c. Every student, irrespective of the method by which he seeks admission, must present to the College through the principal of his former school, a transcript covering his entire record of subjects and grades and a statement including the principal's estimate of his character.

**NOTE:** All entering Freshmen will be required to take placement tests in English and mathematics. Students registering in the School of Education and Sciences will take placement tests in French if they have two units of French on their high school transcripts. All who fail in the English examination will be assigned to a remedial course in English (English 210). All who fail in the mathematics examination will be assigned to a remedial course in mathematics (Mathematics 309). All who fail in the French test will take French 211.

**2. Students of Advanced Standing.**

Applications for advanced standing will be passed upon by the admission officer, after transcripts have been received.

All persons who desire to enter the College should make application to the Registrar before the opening of the quarter in which they wish to enroll. Those who desire to be admitted by certificate should apply as soon as possible after graduation from high school. For all applicants the blank form found in the back of the catalogue is sufficient. Early attention to this matter will save the student much delay at the opening of the session.

**3. Special Students.**

In exceptional cases applicants of mature years, of special training along particular lines, or of long experience in specific fields of knowledge, may be admitted to the College to study certain subjects, as special students, even though they cannot satisfy entrance requirements. Such students must do a passing grade of work in each course for which they may be permitted to register, or they will be asked to withdraw from the course.

**STUDENT LOAD**

The unit of credit is the quarter hour, which stands for one recitation or two laboratory periods per week for a period of twelve

weeks. Each recitation period carries with it approximately two hours of preparation.

Students will generally be required to register for 14 hours of prepared work of college credit per quarter, as a minimum. The maximum shall be 19 hours per quarter.

(a) Students whose general average is "C" shall be discouraged from registering for as many as 19 hours of work for the quarter following such a record.

(b) Students whose average is "B" with no grade below "C" may be permitted to register for not more than 19 hours of prepared work.

(c) Students whose average is 2.5 grade points, with no grade below "B" may be permitted to register for not more than 21 hours of work for the quarter following such a record.

### MARKING SYSTEM

|                                    | <i>Grade Points</i> |
|------------------------------------|---------------------|
| 93-100—A (Excellent) .....         | 3                   |
| 82- 92—B (Good) .....              | 2                   |
| 71- 81—C (Fair) .....              | 1                   |
| 60- 70—D (Poor, but passing) ..... | 0                   |
| Below 60—F (Failure) .....         | -1                  |
| I (Incomplete)                     |                     |
| W.P. (Withdrew, passing)           |                     |
| W.F. (Withdrew, failing)           |                     |

### REMOVAL OF FAILURES

At his first opportunity a student must repeat in class a required course in which he has failed, unless the Dean of his School authorizes a suitable substitute course.

### INCOMPLETES

A student may be reported incomplete in a course if some small portion of his work remains unfinished at the end of the quarter, provided his standing in the course has been grade "C" or higher. To secure credit, this work must be completed within one month after the beginning of the succeeding quarter. Otherwise the grade must be reported by the instructor as "F."

### GRADE POINTS

The maximum points which a candidate for graduation with minimum hour requirements can make under this system will be 600, the minimum 200; that is, in order to graduate, a student must make an average of "C."

**COURSE NUMBERING SYSTEM**

The instruction of the College is administered by three main groups:

The Faculty of the School of Agriculture.

The Faculty of the School of Education and Sciences

The Faculty of the School of Mechanic Arts.

The number of each course in the Agricultural School begins with the figure 1; those in the School of Education and Sciences, with the figure 2; and those in the Mechanic Arts School, with the figure 3.

All courses are designated each by a number containing three figures. The first indicates the School in which it is offered; the second (with a few exceptions), its academic classification; and the third, either the quarter in which it is usually given or its serial number.

*Examples:*

History 211 is a course offered by the Faculty of the School of Education and Sciences, it is open to freshmen, and it is usually offered in the first quarter (Fall Quarter).

Chemistry 116 is a course offered by the Faculty of the School of Agriculture; it is open to freshmen, and it is one of a series (beginning 114).

Physics 323 is a course offered by the Faculty of the School of Mechanic Arts; it is open to Sophomores, and it is usually given in the third quarter (Spring Quarter).

*Exceptions:*

(a) There are some unavoidable exceptions to this system, especially with reference to the second and third figures. Some courses with the middle figure 1 are open to upperclassmen, and there are a few courses with the middle figure 2 open to freshmen. Courses are not in every case given during the quarter indicated by the third figure (where the third figure is meant to indicate the quarter rather than the serial number).

(b) Courses in all Schools open to advanced undergraduates and graduates are numbered 500 plus; strictly graduate courses are numbered 600 plus.

(c) Courses in the Vocational School are numbered 400 plus.

**CREDIT EVALUATION SYSTEM**

The credit value of each course is indicated by three numbers. The first represents the full credit value in quarter hours, the second, the number of recitations per week, and the third, the number of hours spent in the laboratory each week. For example: French 211, Credit 5(5-0) means that this course carries 5 hours credit, and

is conducted by lecture or recitation 5 times per week with no assigned laboratory; while Chemistry 112, Credit 5(3-4) carries 5 hours credit, 3 hours being devoted to lecture or recitation and 4 spent in the laboratory. Two hours in the laboratory are required for 1 hour of credit.

## GENERAL GRADUATION REGULATIONS

(See special graduation requirements for each School.)

Graduation from the A. and T. College involves the satisfaction of the following requirements:

1. The candidate for a degree must have selected a specific curriculum, having the approval of the Dean of the School in which he is registered. This curriculum must be completed.
2. Whether registered in Agriculture, Education and Sciences or Mechanic Arts, he must complete at least 200 quarter hours and 200 grade points.
3. The credit hours must aggregate at least 200, including the required courses in military science and physical education. The grade points must equal 1 times the number of credit hours undertaken, whether passed or failed. If after securing 200 credit hours the student is deficient in grade points, he must take additional courses to secure these points. The student must obtain an average of 1.5 or more in his major field and 1.0 or more in his minor field.
4. It is the aim of the institution to send forth men and women who are fit representatives. To this end, the College reserves the right to refuse to admit any student to the Senior Class or to graduate anyone who though qualified by class record may otherwise seem unfit.
5. Payment of diploma fee of five dollars (\$5.00) must be made to the Bursar on or before May 1 preceding graduation.
6. Students in the graduating class must clear all conditions by the end of the quarter preceding graduation.
7. Candidates for graduation must file an application for graduation upon the form provided, at least four months prior to the date they expect to graduate. A minimum of one year of residence is required.

## GRADUATION WITH HONORS

By a vote of the Administrative Council in the Spring of 1938, it was decided that henceforth graduation honors would be awarded candidates completing all requirements for graduation in accordance with the following stipulations: (1) Those who maintain throughout their course a grade point average within the range of 2.00 to 2.24 will receive "honor"; (2) those who maintain a gen-

eral average within the range from 2.25 to 2.49 will receive "high honor"; and (3) those who maintain an average within the range from 2.50 to 3.00 will receive "highest honor."

### DEGREES

All students successfully completing any of the four-year courses of study shall be entitled to the degree of Bachelor of Science.

1. Those graduating from a four-year curriculum offered in the School of Mechanic Arts shall be entitled to the Bachelor of Science degree in Engineering, Architectural Engineering, Industrial Arts, Fine Arts, Commercial Industries, Business Administration or Commercial Education.

2. Those graduating from a four-year curriculum in Agriculture shall be entitled to the degree of Bachelor of Science in Agriculture.

3. Students successfully completing a curriculum in the School of Education and Sciences shall be entitled to the degree of Bachelor of Science.

4. The Master of Science degree will be awarded those meetings requirements for same. (See page 53).

### STUDENT ORGANIZATIONS

#### ALPHA KAPPA MU HONOR SOCIETY

The Alpha Kappa Mu Honor Society is a national scholarship organization with local chapters established in grade "A" colleges.

The local chapter is now known as the Gamma Tau Chapter of the Alpha Kappa Mu Honor Society, and qualifications for Gamma Tau which have been changed to conform to those of the National Organization are as follows:

1. Candidate must have completed ninety quarter hours with an average of not less than 2.3 or sixty semester hours with same said average.

2. Membership is open to all students of the College provided they meet requirements, and, in the case of transfer students, there was and is a chapter of Alpha Kappa Mu or some other honor society with equivalent standards, rules and regulations at the institution from which they transferred.

3. Candidates must never have been suspended for disciplinary problems.

The Society encourages participation in at least one extracurricular activity. All students recommended by the Registrar as having the qualifications listed above are eligible for membership.

**SOPHIST SOCIETY**

This organization is composed of regular college students of Freshman, Sophomore, and Junior classification who maintain a minimum average of 2.3. The purpose of this organization is to encourage high scholarship among all college students.

Persons who remain in the Sophist Society for three years are eligible for membership in Gamma Tau Honor Society during the senior year.

**FRATERNITIES**

The following national fraternities have chapters at the college: Alpha Phi Alpha, Omega Psi Phi, Phi Beta Sigma, and Kappa Alpha Psi.

**SORORITIES**

The following national sororities have established local chapters: Alpha Kappa Alpha, Delta Sigma Theta, and the Zeta Phi Beta.

**PAN-HELLENIC SOCIETY**

The Pan-Hellenic Society is a kind of federation of all fraternities and sororities on the campus. Its membership is composed of elected representatives from each Greek-letter organization. The main purpose is joint action for maintaining high standards in fraternity and sorority life at the institution.

**COLLEGIATE 4-H CLUB**

The Collegiate 4-H Club is composed of students who have had previously experience as 4-H Club members in high school. An informal meeting of a business and social nature is held monthly. Honorary members may be elected to the club from time to time.

**THE COLLEGIATE NFA CLUB**

The Collegiate Chapter of the New Farmers of America is composed of agricultural students who are former NFA members or trainees who are enrolled in the teacher training department of the School of Agriculture. The purpose of the collegiate chapter shall be to give training and experience to students who will later become teachers of vocational agriculture. Honorary members may be elected to the collegiate chapter of the New Farmers of America.

**THE AGRICULTURAL ASSOCIATION**

This association is composed of agricultural students. It meets twice monthly for business and social purposes.

Honorary members may be elected to the association from time to time.

**RELIGIOUS ACTIVITIES**

It is the purpose of the College to maintain a high moral tone and develop a broad, tolerant religious spirit among the students. In this connection there is a well-organized Y. M. C. A. and Y. W. C. A., which meet twice a month. A special service will be conducted in the chapel each month by pastors representing the different denominations of the city. Sunday school is conducted every Sunday during the school year. All religious services will be free from sectarianism.

**THE COLLEGE BAND**

The College Band of more than fifty pieces occupies an important place in the life of the Institution. Instruction by an expert band-master is given in all band instruments. A splendid opportunity is thus offered competent and worthy students to learn band music without extra expense to themselves.

Membership in the band is open to regular students of the College.

**FOREIGN LANGUAGE CLUBS**

*Le Cercle Francais* and *El Circulo Espanol* and *Die Deutsche Gesellschaft* meet once a month during the academic year.

**THE FORTNIGHTLY CLUB**

This organization, which gets its name from the period normally intervening between each meeting, is composed mainly of English majors and other advanced students who are interested in coming together for the purpose of exchanging ideas about books and people that have influenced or are influencing the life of their time.

**THE DEBATING SOCIETY**

The Kappa Phi Kappa Forensic Society, better known as the Debating Society, is designed to stimulate interest in public speaking and debate. It is composed of college students who have distinguished themselves in public performances in these fields.

**THE A. AND T. LITTLE THEATRE**

The A. and T. Little Theatre is an outstanding campus activity whose genuinely artistic work bespeaks the excellent training and unusual opportunities rendered by the dramatic workshop and laboratory theatre for unlimited experimentation in acting, play-writing, stagecraft, and play direction.

**CHORAL ORGANIZATIONS**

The Choral Society, The Men's Glee Club and The A Cappella Choir have won for themselves an enviable reputation, both at home and abroad, for the genuine artistry of their work. These organizations, open to all qualified students, offer extracurricular activity which is at once instructive and enjoyable.

## SCHOLARSHIPS AND PRIZES

### COLLEGE SCHOLARSHIPS

The College will grant a scholarship for one year to any student who makes an average grade of 2.5 grade points for the three quarters of the preceding school year. This scholarship will pay tuition and can be used for no other purpose. Winners, 1943: Artelia Bright, Mary Devine, Rose Jenkins, Ellen Reeves, Gloria Holland, F. Bettie Simmons, Olymphia Hazelwood, Catherine Richardson, Gwendolyn Rogers, William D. McNeill.

### SCHOLARSHIPS IN DAIRY HUSBANDRY

Six scholarships are given each year to high school graduates who wish to take a one-year short course in dairy husbandry. Board, room and all fees are paid. Applications should be obtained from the Dean of Agriculture before August 1st of each year.

### NFA SCHOLARSHIP

The College offers a one-year scholarship of \$50.00 to the NFA member graduate from high school who has the best record in supervised practice work and scholastic activities for a period of four years.

### Y.W.C.A. SCHOLARSHIP

As a means of promoting scholarship among high school girls and to encourage them to attend college, the College Y.W.C.A. offers, each year, a scholarship of \$50.00 to be used in defraying college expenses. The selection is made at the "Y" May Festival by the May Queen. (May Queen, 1943, Rose Jenkins.)

### 4-H CLUB WORK SCHOLARSHIP

In order to promote interest among Negro 4-H Club boys in North Carolina and to encourage continuous achievements in all phases of 4-H Club work, The College offers a one-year scholarship of \$50.00 to the high school graduating senior with the best record in 4-H Club work. This is to be used in defraying expenses at the institution.

### WILLIAM H. FOUSHEE MEMORIAL SCHOLARSHIP CUP

Dr. J. M. McGee of Greensboro each year presents a scholarship cup in memory of William H. Foushee, Jr., a former student of A. and T. College to the member of the Junior Class with the highest scholarship average. (Winner, 1943, Andrew Arthur Best.)

### REGISTER AWARD

As a means of promoting a wider interest and greater activity on the part of the students in the field of journalism, the College *Register* awards a gold or silver key to those members of the

graduating class who completed a period of at least two years of meritorious service as members of the *Register* Staff. (Winners, 1943, Alvin Vincent Blount, Jr., Ann Lamb Davis, Stanley Chavis McCorkle, Brodus Eugene Sawyer, Charles Russell Wyrick.)

#### **ALUMNI ATHLETIC AWARD**

The Philadelphia branch of the College Alumni Association awards a gold medal each year to the student of the graduating class making the best record in major intercollegiate sports. (Winner, 1943, Lou Earl Dutch Clark.)

#### **ALUMNI SERVICE AWARD**

The Gate City (Greensboro) Chapter of the Alumni Association makes an award each year to that member of the graduating class, voted by the Administrative Council as having rendered the "most distinctive service to the College and to the community." (Winner, 1943, Alvin Vincent Blount, Jr.)

#### **KAPPA PHI KAPPA KEY**

The Kappa Phi Kappa Key was first awarded in 1928 by the Kappa Phi Kappa Debating Society. (Winners, 1943, Clarence Lockwood Love and Broadus Eugene Sawyer.)

#### **COHEN PRIZE**

The New Cohen Prize is given by the Ned Cohen Jewelry Box of Greensboro, to the student in Secretarial Science who receives the highest scholastic average.

#### **DEBATING TROPHY**

The Rand-Hawkins-McRae debating trophy is provided by Messrs. J. M. Rand, J. A. Hawkins and S. D. McRae, graduates of the college, Class of 1906, and is awarded annually to the members of the graduating class who have at least three years of varsity debating.

#### **MEDALS**

The John Merrick Medal will be awarded to the student completing the four-year mechanical course with the best record in the college department. (Winner, 1943, Otis Alphonso Williams.)

The M. F. Spaulding Medal will be awarded to the student completing the full four-year course in agriculture with the best record. (Winner, 1943, Burleigh Carlye Webb.)

The Saslow's, Inc., Medals will be awarded (a) to the member of the graduating class who completes the four-year course in the School of Education and Sciences with best record, and (b) to the student who graduates with best record in Social Sciences. ((a) Winner, 1943, Broadus Eugene Sawyer; (b) Winner, 1943, Broadus Eugene Sawyer also.)

The George H. Keyes medal is provided by Karl Martin Keys, a member of the class of 1938, in memory of his father, the late George H. Keys.

It will be awarded to the student completing the four-year agricultural course with the best record in Farm Mechanics or Agricultural Engineering. (Winner, 1943, Seward Elliott Selby.)

### **ALUMNI LOAN FUND**

The primary purpose of this loan fund is to provide financial aid to needy students who have demonstrated potential ability to become useful citizens. Evidences of this ability are character, mental alertness, industry, and scholarship. No student is encouraged to burden himself with debt unless she has a definite purpose in continuing his formal education at the College.

When a student's application is approved, he must sign a formal note for the amount of the loan. For Juniors the note is usually made out payable on or before entering school the following fall. For Seniors the note is usually made out payable within one year from the date of the loan. For emergency loans the note is made out payable within thirty to sixty days from the date of the loan.

No student may borrow more than \$50.00 within one year. Usually loans will be limited to \$20.00 or less a quarter. The amount of the quarterly loan may be exceeded in exceptional cases, but the maximum of \$50.00 will not be exceeded in any case.

All money borrowed from the Alumni Loan Fund must be used for direct college expenses. Such expenses may be: tuition, room rent in a college dormitory, board at the College Dining Hall, books at the College Canteen, and laboratory fees. No cash will be issued on any loan.

### **HICKS-MOSLEY STUDENT LOAN FUND**

The Hicks-Mosley Student Loan Fund, which was established during the school year 1939-40 by Miss Esther Hicks, Commercial Education instructor at the College, in honor of her parents, is designed to aid worthy students who have clearly evidenced talent and ability but who lack the means to continue their schooling and deserve moderate financial aid that will enable them to complete their studies for a beneficial period of time.

Small amounts of money will be loaned at the crucial times when deemed advisable and a moderate rate of interest charged. Students are to apply by written application according to the time schedule indicated below, and all loans are due (both principle and interest) September 1, of the year after loan is granted. All loans must be secured by legal note.

Students desiring loans should apply during the following periods:

- For loans granted Fall Quarter,  
September 1, to September 15.
- For loans granted Winter Quarter,  
December 1, December 15.
- For loans granted Spring Quarter,  
March 1, March 15.

### **SUMMER SCHOOL**

*In Point of Continuous Service the Oldest Summer School in the Country for Negroes*

The forty-seventh annual summer session of the A. and T. College Summer School will begin June 7, 1944, and continue for twelve weeks, thereby completing a full quarter of college work under the new accelerated plan.

Aside from the splendid opportunity which the Summer School offers teachers in service to raise their certificates and thereby obtain better salaries, the College makes it possible for the ambitious teacher to obtain a standard degree by attending the summer school.

College students may shorten their stay in college by attending summer school. Students from other institutions may enter the summer session for credit in their respective institutions, by permission from either the President or Dean of their respective colleges. Such students will not be required to present a complete record of their previous training, but will be required to present a signed statement from the President or Dean indicating the summer courses for which credit will be allowed.

College graduates may use their time in summer school meeting requirements for the Master of Science degree. Persons interested in earning this degree should make application for candidacy early in order that their program may be arranged with this end in view.

### **EVENING SCHOOL**

The College conducts an Evening School for teachers in service, and others who can qualify for the courses offered. All evening courses are the same as such courses that are offered in the regular day classes, and may be offered towards a degree. Admission to the Evening School is the same as for the regular day classes. The same amount of work is required and a similar grade of work is required for the same amount of credit.

### **OPPORTUNITIES FOR NURSE TRAINING**

The School of Nurses of the L. Richardson Memorial Hospital has established an affiliation with the A. and T. College, which

makes it possible for young women who have completed their courses in nurse training to receive degrees from A. and T. College when they will have met the college requirements for graduation. This should take from one to two years of additional study.

In recent years there has been a great increase in the number of hospitals established for Negroes, which brings about a corresponding demand for trained nurses. There is a great demand for nurses with college training to serve as superintendents of hospitals and in other executive positions. It is, therefore, hoped that a large number of young women will take advantage of the opportunities offered in this field.

### PROFESSIONAL REQUIREMENTS FOR NORTH CAROLINA HIGH SCHOOL TEACHERS' CERTIFICATE

1. Educational Psychology ..... 2 semester hours
2. Principles of High School Teaching  
or  
Problems in Secondary Education..... 2 semester hours
3. Materials and Methods ..... 2 semester hours
4. Observation and Directed Training..... 3 semester hours  
(one or both fields)
5. Electives ..... 9 semester hours

Students whose general average is less than B in their major field will be ineligible to take the professional courses preparatory to a teachers' certificate and will not be recommended for same.

See Summer School Bulletin for Elementary Certificate requirements.

See Bulletin of the Graduate Division for Graduate Certificate requirements.

### EXPENSES AND FEES

Boarding students entering for the first time should be prepared to make the following payments:

|                              | Men      | Women    |
|------------------------------|----------|----------|
| Board .....                  | \$ 20.00 | \$ 20.00 |
| Lodging .....                | 5.00     | 5.00     |
| *Tuition, Fall Quarter ..... | 15.00*   | 15.00*   |
| Laundry .....                | 2.00     | 1.00     |
| **Registration .....         | 12.00    | 12.00    |
| Athletic Fee .....           | 5.00     | 5.00     |
| Laboratory Fee .....         | 5.00     | 5.00     |

\* An out of state tuition of \$7.50 per quarter will be charged for non-residents of North Carolina.

\*\* Registration fee includes lectures and lyceum entertainments, library privileges, medical care by college physician, and all prescriptions prescribed by him for campus students. This fee does not include hospitalization, operations, dental services, or prescriptions written by other physicians.

|                                                  |      |      |
|--------------------------------------------------|------|------|
| College Register Fee (Student Publication) ..... | 1.00 | 1.00 |
| Rental of Mail Box .....                         | 1.00 | 1.00 |
| Dormitory Room Key Deposit .....                 | .50  | .50  |
| Student Activity Fee .....                       | 2.00 | 2.00 |
| Library and Laboratory Fee .....                 | 2.00 | 2.00 |

Total payment first month, Sept. 12, 1944.....\$ 70.50\* \$ 69.50\*

(A deposit of ten dollars must be added to this total by R.O.T.C. students. See p. 7)

|                                                                                 |          |          |
|---------------------------------------------------------------------------------|----------|----------|
| Second payment, due Oct. 10, 1944.....                                          | \$ 27.00 | \$ 26.00 |
| Third payment, due Nov. 7, 1944.....                                            | 27.00    | 26.00    |
| Fourth payment, due Dec. 5, 1944<br>(Quarterly lab. and tuition fees due).....  | 27.00    | 26.00    |
| Fifth payment, due Jan. 2, 1945.....                                            | 47.00*   | 46.00*   |
| Sixth payment, due Feb. 1, 1945.....                                            | 27.00    | 26.00    |
| Seventh payment, due March 1, 1945.....                                         | 27.00    | 26.00    |
| Eighth payment, due April 2, 1945<br>(Quarterly lab. and tuition fees due)..... | 47.00*   | 46.00*   |
| Ninth payment, due May 1, 1945.....                                             | 27.00    | 26.00    |

Grand Total .....\$326.50 \$317.50

A student boarding and lodging in the city should be prepared to make the following entrance payments:

|                                              |         |
|----------------------------------------------|---------|
| Tuition and Occupancy (Monthly) .....        | \$ 8.00 |
| ***Registration .....                        | 9.00    |
| Athletic Fee .....                           | 5.00    |
| Laboratory Fee .....                         | 5.00    |
| College Register (Student Publication) ..... | 1.00    |
| Student Activity Fee .....                   | 2.00    |
| Library and Laboratory Fee .....             | 2.00    |

Total payment first month, Sept. 12, 1944.....\$ 32.00\*

|                                                       |         |
|-------------------------------------------------------|---------|
| Second payment, due Oct. 10, 1944.....                | \$ 8.00 |
| Third payment, due Nov. 7, 1944.....                  | 8.00    |
| Fourth payment, due Dec. 5, 1944.....                 | 8.00    |
| Fifth payment, Jan. 2, (Lab. fee due).....            | 13.00*  |
| Sixth payment, due Feb. 1, 1945.....                  | 8.00    |
| Seventh payment, due March 1, 1945.....               | 8.00    |
| Eighth payment, due April 2, 1945 (Lab. fee due)..... | 13.00   |
| Ninth payment, due May 1, 1945.....                   | 8.00    |

Grand Total .....\$106.00

\* An out of state tuition fee of \$7.50 per quarter will be added to the above charges for non-residents of North Carolina.

\*\*\* Registration fee includes lectures and lyceum entertainments and library privileges.

### Quarterly Payments

(Laboratory fees payable at the beginning of each quarter)

|                                        |         |
|----------------------------------------|---------|
| Bacteriology Lab. ....                 | \$ 3.00 |
| Dairy Lab. 131, 132 .....              | 2.00    |
| Dairy Lab. 133 .....                   | 4.00    |
| Botany Lab. ....                       | 3.00    |
| Chemistry Lab. ....                    | 5.00    |
| Physics Lab. ....                      | 3.00    |
| Zoology Lab. ....                      | 3.00    |
| Textiles Lab. ....                     | 2.00    |
| Agronomy Lab. 111 .....                | 1.00    |
| Foods Lab. ....                        | 4.00    |
| Drawing Fee .....                      | 1.00    |
| Commercial Industrial Shops .....      | 1.50    |
| Electrical Engineering .....           | 3.00    |
| Electricity and Plumbing .....         | 3.00    |
| Machine Shop Practice .....            | 2.00    |
| Carpentry .....                        | 3.00    |
| Auto Mechanics .....                   | 3.00    |
| Cement Finishing and Bricklaying ..... | 2.00    |
| Shoemaking .....                       | 3.00    |
| Tailoring .....                        | 3.00    |
| Poultry 131, 133 .....                 | 50.     |
| Typewriting .....                      | 4.00    |
| Industrial Arts Shop .....             | 1.50    |
| Aviation Mechanics .....               | 4.00    |
| General Science 131, 132 .....         | 2.00    |

### OTHER FEES

|                                                                            |         |
|----------------------------------------------------------------------------|---------|
| Fee (for each transcript of student's record after the first).....         | \$ 1.00 |
| Fine per day for late class registration each quarter.....                 | .50     |
| Radio fee per month .....                                                  | .50     |
| Music (two lessons per week and use of Piano for practice per month) ..... | 4.00    |
| Practice teaching (other than Vocational Agriculture).....                 | 25.00   |

Note: All fees and bills are payable in advance. Make all post-office money orders, bank drafts and cashier's checks payable to A. and T. College. Personal checks are not accepted unless certified.

### SELF-HELP

The institution cannot guarantee jobs to students who expect to work their way through college. Many students find work in private families and in other occupations, by means of which they defray a portion of their expenses. A person of ability and energy who can do work of any kind can generally find employment, but prospective students are cautioned against depending upon such unreliable sources of income.

Note: Any part of library and laboratory deposit left after paying for loss or damage to equipment will be refunded.

## **SCHOOL OF AGRICULTURE**

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**JOHN C. McLAUGHLIN, Dean**

The School of Agriculture aims to educate efficient farmers, teachers of agriculture, agricultural extension workers, and leaders in other lines of agricultural activities. Courses are given in various departments of technical agriculture.

The School of Agriculture is equipped to train men and women in horticulture, dairy husbandry, poultry production, rural engineering, rural sociology, rural education, agronomy, and animal husbandry.

### **AGRICULTURAL BUILDING**

The Noble Agricultural Building provides space for agricultural class and laboratory activities. The third floor is occupied by the chemistry laboratory, a lecture room and store-rooms; large rooms are equipped on the second floor for the botanical and zoological laboratories, classrooms for these courses and office space for the State Extension Service; the first floor is occupied by the office of the director of the School of Agriculture, office of the State District Farm and Home Demonstration Agents, the Home Economics Department and the bacteriology laboratory; the basement provides space for laboratories in soils, farm crops, horticulture and dairy husbandry and offices.

### **F FARMS**

The College has three farms. The old farm is located on State Highway No. 70, and on the Southern Railroad from Greensboro to Goldsboro, about one mile from the campus, and contains one hundred and three acres. There is on this farm a modern piggery, dairy barn, poultry plant, 78 acres of permanent pasture, implement sheds, barns and orchard containing several hundred fruit trees of various kinds, and a two-story brick dormitory. The dormitory is for the dairyman and the poultryman.

The second farm contains one hundred and forty-three acres and is located on the McConnell Road about one mile south of the old farm. It has a large shed on it for sheltering farm implements.

The third farm is located three quarters of a mile south of the old farm partly facing the new farm, north of McConnell Road, and contains two hundred and sixty-one acres. There are on this farm five dwelling houses and six barns.

These farms are equipped with modern machinery necessary for successful farming under North Carolina conditions. The farms give an opportunity for instruction and practice in handling small farms on an intensive basis.

#### **FOUR-YEAR COLLEGE COURSE IN AGRICULTURE**

This course leads to the B.S. degree in Agriculture. The entrance requirements are the same as stated elsewhere in this catalogu.

#### **REQUIREMENTS FOR GRADUATION**

The successful completion of one of the prescribed curricula consisting of a minimum of 200 quarter hours and 200 grade points is required for graduation. In addition the student must have a thorough, practical knowledge of farming activities and rural life conditions before receiving his degree. Students who have not had this experience before entering the course will be given an opportunity to get it before ending their college career.

#### **THE CURRICULUM**

The curriculum in General Agriculture aims to give the student instruction in courses which will prepare him for intelligent practical farming, farm management and extension service.

The curriculum for Teachers of Agriculture is designed to prepare the trainee to qualify under the provisions of the Federal Vocational Acts to occupy positions as teachers of vocational agriculture in North Carolina and other states. Students who expect to teach vocational agriculture in North Carolina will be required to meet the professional requirements of the State.

## UNIFORM CURRICULUM FOR AGRICULTURE

## Freshmen

|                                      | Fall   | Winter | Spring |
|--------------------------------------|--------|--------|--------|
| English 211-212-213 .....            | 5(5-0) | 5(5-0) | 5(5-0) |
| Zoology 111 or Botany 116 .....      | .....  | .....  | 5(3-4) |
| Chemistry 114, 115, 116 .....        | 5(3-4) | 5(3-4) | 5(2-6) |
| Poultry 111, 112 .....               | 3(2-2) | 3(2-2) | .....  |
| Horticulture 113 .....               | .....  | .....  | 4(2-4) |
| Military Science 211, 212, 213 ..... | 2(3-2) | 2(3-2) | 2(3-2) |
| Music or Art 211, 212, 213.....      | 1(0-2) | 1(0-2) | 1(0-2) |
| Education 211, 212, 213 .....        | 1(1-0) | 1(1-0) | 1(1-0) |
| Econ. 114, 115 .....                 | 3(3-0) | 3(3-0) | .....  |

## Sophomore

|                                 | Fall   | Winter | Spring |
|---------------------------------|--------|--------|--------|
| Zoology 111 or Botany 111 ..... | .....  | .....  | 5(3-4) |
| Horticulture 133 .....          | 4(2-4) | .....  | .....  |
| English 214 .....               | 3(3-0) | .....  | .....  |
| Dairy 121 .....                 | 5(3-4) | .....  | .....  |
| Bacteriology 121 .....          | .....  | .....  | 5(3-4) |
| Horticulture 122 .....          | .....  | 3(2-2) | .....  |
| Agronomy 122, 123 .....         | .....  | 3(2-2) | 3(2-2) |
| Animal Husbandry 122 .....      | .....  | 3(2-2) | .....  |
| Poultry 122 .....               | .....  | 3(2-2) | .....  |
| Zoology 131 .....               | .....  | .....  | 5(3-4) |
| Military Science .....          | 2(3-2) | 2(3-2) | 2(3-2) |
| Electives .....                 | 3      | .....  | .....  |

## CURRICULUM FOR TEACHERS OF AGRICULTURE

## Juniors

|                          | Fall   | Winter | Spring |
|--------------------------|--------|--------|--------|
| Edu. 237, 238, 231 ..... | 3(3-0) | 3(3-0) | 5(5-0) |
| Econ. 231, 142 .....     | 5(5-0) | .....  | 5(5-0) |
| Dairy 134, 145 .....     | .....  | 5(3-4) | 4(2-4) |
| An. Hus. 132, 131 .....  | 5(3-4) | .....  | 3(2-2) |
| Agron. 143 .....         | 3(2-2) | .....  | .....  |
| Dairy 146 .....          | .....  | 4(2-4) | .....  |
| Hort. 123 .....          | .....  | .....  | 3(2-2) |

## Seniors

|                                | Fall   | Winter | Spring |
|--------------------------------|--------|--------|--------|
| Edu. 141, 142, 143 .....       | 3(3-0) | 3(3-0) | 3(3-0) |
| Edu. 144, 145, 146 .....       | 2(0-4) | 2(0-4) | 2(0-4) |
| Agron. 141, 131 .....          | 3(2-2) | .....  | 3(2-2) |
| An. Hus. 141 .....             | 3(3-0) | .....  | .....  |
| Rural Eng. 141, 142, 143 ..... | 3(1-4) | 3(0-6) | 3(0-6) |
| Ed. 501 .....                  | .....  | 3(2-2) | .....  |
| Bot. 123 .....                 | 3(2-2) | .....  | .....  |
| R. Soc. 501 .....              | 3(3-0) | .....  | .....  |
| Electives .....                | 3( )   | 2( )   | .....  |

## ELECTIVES FOR AGRICULTURAL STUDENTS

| Fall         | Winter        | Spring          |
|--------------|---------------|-----------------|
| Econ. 143    | Educ. 341     | Educ. 236       |
| Physics 321  | Educ. 249     | Dairy 132       |
| Sec. Sc. 317 | Educ. 224     | A. Hus. 134     |
| Eng. 231     | Geo. 240      | Geo. 241        |
| Zool. 121    | Physics 322   | Ed. 221         |
| R. Eng. 120  | Eng. 222, 231 | Eng. 221 or 222 |
|              | Hort. 119     | Bot. 122        |
|              | Poul. 133     |                 |
|              | B. A. 232     |                 |

Students desiring to fit themselves for Civil Service examinations may elect other courses from any department that fits their individual need, with the approval of the director.

## MAJOR IN GENERAL AGRICULTURE AND EXTENSION SERVICE

## Junior Year

|                                     | Fall   | Winter | Spring |
|-------------------------------------|--------|--------|--------|
| Sociology 231 .....                 | 5(5-0) | .....  | .....  |
| Econ., Business Law, 143, 335 ..... | 5(5-0) | 5(5-0) | .....  |
| Econ. 142 .....                     | .....  | .....  | 5(5-0) |
| Poultry 131 .....                   | 3(2-2) | 3(1-4) | .....  |
| Agronomy 131 .....                  | 3(2-2) | .....  | .....  |
| An. Hus. 132, 131 .....             | 5(3-4) | .....  | 3(2-2) |
| Education 231 .....                 | .....  | .....  | 5(5-0) |
| Horticulture 123 .....              | .....  | .....  | 3(2-2) |
| *Electives .....                    | 5( )   | 2( )   | .....  |

## Senior Year

|                                                           | Fall   | Winter | Spring |
|-----------------------------------------------------------|--------|--------|--------|
| **Observation and Practice in Extension<br>148, 149 ..... | 5(5-0) | 5(5-6) | .....  |
| Sociology 501 .....                                       | 3(3-0) | .....  | .....  |
| Agronomy 141, 143 .....                                   | 3(2-2) | .....  | 3(2-2) |
| Dairy 134, 145 .....                                      | .....  | 5(3-4) | 4(2-4) |
| Dairy 146 .....                                           | .....  | 4(2-4) | .....  |
| Ext. Problems 150 .....                                   | .....  | .....  | 3(0-6) |
| Bot. 123 .....                                            | 3(2-2) | .....  | .....  |
| Rur. Eng. 141, 142, 143 .....                             | 3(1-4) | 3(0-6) | 3(0-6) |
| *Electives .....                                          | .....  | .....  | 5( )   |

## TWO-YEAR COLLEGIATE COURSE IN AGRICULTURE

This course is designed for those who are actually engaged in farming or who expect to be farmers. The course is intended to meet the needs of young people of the State who for any reason are not financially able, or who do not desire to take the full four years of college work.

\* Electives must be approved.

\*\* Students interested in general agriculture may select other courses.

The course gives practical work covering the general and specialized features of agriculture in North Carolina.

Students taking the two-year course do not have to adhere strictly to the outline; other courses may be substituted that will best meet the needs of the individual student with the advice of the Dean. Students may elect work for one year, or one quarter as will best meet their immediate needs.

The opportunities for graduates of this course will depend largely upon the character of the student's work while in college, his previous experience, his personality, ability, ambition and industry. With the readjustment through which agriculture is now passing, and the close competition farmers are forced to meet, there is coming a condition which will make it more necessary than ever before for the self-sufficient as well as the commercial farmers, to be trained and intelligent.

A certificate will be awarded on the satisfactory completion of this agricultural course. In the event a student decides to return later to complete the full four-year course, he will receive credit toward his degree for the two years of work already done.

### SUGGESTED OUTLINE OF TWO-YEAR COLLEGIATE COURSE IN AGRICULTURE

#### First Year

|                          | Fall   | Winter | Spring |
|--------------------------|--------|--------|--------|
| Econ. 114, 115 .....     | 3(3-0) | 3(3-0) | .....  |
| Poul. 111, 112, 122..... | 3(2-2) | 3(2-2) | 3(2-2) |
| Eng. 211, 212, 213 ..... | 5(5-0) | 5(5-0) | 5(5-0) |
| Hort. 123, 113 .....     | .....  | .....  | 4(2-4) |
| Agron. 122, 123 .....    | 3(2-2) | 3(2-2) | 3(2-2) |
| An. Hus. 122 .....       | .....  | 3(2-2) | .....  |
| Bot. 121 .....           | .....  | .....  | 3(2-2) |
| Dairy 121 .....          | .....  | .....  | 5(3-4) |
| Chem. 144 .....          | 5(3-4) | .....  | .....  |

#### Second Year

|                             | Fall   | Winter | Spring |
|-----------------------------|--------|--------|--------|
| Econ. 231, 142 .....        | 5(5-0) | .....  | 5(5-0) |
| An. Hus. 131, 132 .....     | 3(2-2) | 5(3-4) | .....  |
| Zool. 131 .....             | .....  | .....  | 3(2-2) |
| Agron. 141, 143 .....       | 3(2-2) | .....  | 3(2-2) |
| Dairy 133, 145, 146 .....   | 4(2-4) | 4(2-4) | 4(2-4) |
| R. Eng. 141, 142, 143 ..... | 3(1-4) | 3(0-6) | 3(0-6) |

## **SCHOOL OF MECHANIC ARTS**

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*J. M. MARTEENA, Dean*

The School of Mechanic Arts offers many opportunities to students to help them prepare to meet the demands of industry for leaders and skilled workmen in various technical professions and vocations. In addition to the professional courses and those designed to prepare skilled workmen, the department offers training to prepare teachers in many of these fields. Students who complete the teaching requirements as outlined in the several curricula will qualify for the Class "A" Certificate.

The four-year courses leading to the Bachelor of Science degree are as follows: Architectural Engineering, Business Administration, Commercial Education, Commercial Industries and Industrial Education, Electrical Engineering, Fine Arts, Industrial Arts and Mechanical Engineering.

Majors in Mathematics or Physics are offered to students in all departments.

The Vocational Courses leading to certificates are as follows: Auto Mechanics, Carpentry, Cabinet Making and Upholstering, Shoe Repairing and Leather Work, Tailoring, Machine Shop Practice, Masonry, Laundry Management, Secretarial Science, Plumbing and Steam Fitting, and Welding.

### **MECHANIC ARTS DIVISION**

In the past few years the State of North Carolina has invested many thousands of dollars in equipment for the various departments of the School of Mechanic Arts. Each department has among its equipment some of the latest designs in machinery and tools for each particular line of work.

### **ADMISSION TO THE SCHOOL OF MECHANIC ARTS**

The admission requirements are the same as those given for entrance to the freshman class.

### **ADVANCED STANDING**

Students who have attended colleges of approved standing will be given appropriate credit for work completed there,

upon the presentation of the proper certificate to the Registrar, who will determine the credits for the curriculum which the student wishes to take.

### REQUIREMENTS FOR GRADUATION

The requirements for graduation in any division of the School of Mechanic Arts are the satisfactory completion of all courses in one of the prescribed curricula.

### SPECIAL STUDENTS

Special students are admitted by the Dean of this School who will see to the arrangement of their courses. Special students are understood to be applicants who desire to undertake special study without becoming candidates for degrees. They must evidence a sincere purpose to undertake and profit by the special study and must be of mature age. They must also give good reason for not entering regularly and for not undertaking one of the regular curricular.

### OUTLINE OF THE FIRST YEAR'S WORK OF ALL FOUR-YEAR CURRICULA

In order to permit all students in the School of Mechanic Arts to find out definitely what courses they desire to pursue, the first year of all four-year curricula is made uniform.

#### Freshman Year

|                                             | Fall   | Winter | Spring |
|---------------------------------------------|--------|--------|--------|
| Chemistry 111, 112, 113* .....              | 5(3-4) | 5(3-4) | 5(3-4) |
| Mathematics, Mat. 311, 312, 313** .....     | 5(5-0) | 5(5-0) | 5(5-0) |
| English, 211, 212 .....                     | .....  | 5(5-0) | 5(5-0) |
| Mechanical Drawing, M. E. 311, 312 .....    | 3(0-6) | 3(0-6) | 3(0-6) |
| Descriptive Geometry 314 .....              | .....  | .....  | 3(1-4) |
| Military Science, M. S. 211, 212, 213 ..... | 2(3-2) | 2(3-2) | 2(3-2) |
| Orientation, Education 211, 212, 213 .....  | 1(1-0) | 1(1-0) | 1(1-0) |
| Shopwork, M. E. 317** .....                 | 3(0-6) | .....  | .....  |
|                                             | 19     | 21     | 21     |

\* Students in Business Administration, Commercial Education, Fine Arts, and Commercial Industries should take Chemistry 111 and 112.

\*\* Students in Fine Arts may substitute other courses approved by the head of the department.

# THE SCHOOL OF EDUCATION AND SCIENCES

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\*WARMOTH T. GIBBS, *Dean*

The School of Education and Sciences offers to the student opportunity to prepare either for teaching or for any one of several distinct vocational pursuits. The course is so constructed that the student, although specializing, may come in contact with subjects that possess wide cultural value and insure that broader outlook upon life which should characterize the educated man or woman. This School also offers professional courses in subjects required by the State Board of Education for the Standard "A" grade certificate.

This School includes the following fields of study: economics, education, English, foreign languages, general science, music, physical education, and the social sciences, as well as subjects required for completion of the pre-medical course.

## REQUIREMENTS FOR ADMISSION

Admission requirements are the same as those given for entrance to the Freshman Class (see page 24).

## MAJORS AND MINORS

A student upon entering his third year is expectd to concentrate in at least two definite fields of study. In arranging his work he must conform to the following regulations: (1) At least forty-five hours of the total number required for graduation must be chosen from a particular subject or field, in which he must maintain a graduate point average of 1.5 or more. This will constitute the student's major group. (2) At least 27 hours must be chosen from another subject or field, in which he must maintain a grade point average of 1.0 or more.\*\* This will constitute his minor group. The major should represent the student's principal field of interest and the minor, that of his second selection. Persons preparing to teach are advised to complete majors in two fields.

No student is permitted to major or minor in a subject until he has filled out and turned in the special application form for

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\* On leave of absence May, 1943-April, 1944, when A. Russell Brooks served as Acting Dean.

\*\* Fifty hours are required for a major in English; thirty-five hours, for a minor.

majors and minors and has, thereby, received the written approval of the heads of the two subject-matter departments in which he proposes to concentrate; that is, the departments of his major and minor, or of his two major fields.

The following are suggested as fields for major study in this School:

1. Biological science.
2. Chemistry.
3. English.
4. Mathematics.
5. Modern languages.
6. Music.
7. The social sciences.

A student may select any one of the above fields or physical education for a minor.

#### **GRADUATION REQUIREMENTS**

A minimum of 200 credit hours and 200 grade points is required for graduation.

In addition to majors and minors, each candidate for graduation will be required to meet the following distribution requirements both as to subjects and hours:

1. Foreign language, 10 hours for those who present two admission units of high school credit in the same language, and who pass the placement test in same, others 15 hours.
- \*2. Mathematics, 10 hours.
3. English composition, 15 hours; and literature (English, European, or American) 5 hours.
4. Science: 10 hours of chemistry or physics and 10 hours of biological sciences.
5. History of the Negro, of America, of Modern Europe, 5 hours each: 15 hours, total.
6. Music or art appreciation, 6 hours.
7. Military science, 12 hours.
8. Physical education for women, 6 hours.
9. Orientation, 3 hours.
10. Vocations, 6 hours.
11. Research, 3 hours.

\* Persons holding a satisfactory State teacher's certificate may substitute general science for mathematics.

**SENIOR RESEARCH RULES**

A candidate for the bachelor's degree in the School of Education and Sciences must satisfactorily complete a senior research project as part of the graduation requirement. This project may be written in the candidate's major or minor field, and the student may choose any instructor in the field in which he is writing the paper as his adviser. This adviser will automatically become a member of the Senior Research Committee, the Chairman of which is the instructor in charge of the research course (Research 246). The candidate is responsible first to his adviser and then to the Chairman of the Senior Research Committee.

At the discretion of the instructor of Research 246, students who are candidates for graduation with honors or who for any other reason are capable of or willing to undertake a project of greater scope and higher caliber than required for other projects will be expected to have their papers typed and bound. Any such paper will be known as a "thesis," which upon completion must be signed by the candidate's adviser, the Chairman of the Senior Research Committee, and the Dean of the School of Education and Sciences. It becomes the property of the College Library.

Each candidate is required to take the research course at least one quarter preceding the quarter in which he expects to graduate. Thus, students wishing to graduate in the spring must take the course not later than the Winter Quarter; those wishing to graduate in August may wait until the Spring Quarter preceding graduation.

The student is required to finish the research project by the end of the quarter in which he is taking Research 246. If, however, circumstances over which he has no control prevent him from completing the project in that time, it must, nevertheless, be completed on or before May 15 in the case of persons expecting to graduate in the spring. If a candidate for graduation in August is unavoidably prevented from completing his paper while taking the course, he must finish it two weeks before the date of graduation.

### ELECTIVES

In addition to minimum distribution requirements, a major and a minor, required of all, each student is permitted to elect such additional courses as will satisfy the graduation requirements, but in so doing he is urged to exercise the greatest care in order that his choice may add further to the integration and coordination of his program. All such electives must be made with the approval of the student's adviser.

The elective work may be taken in any of the departments indicated above or from any other department of the institution subject to the approval of the Dean of the School of Education and Sciences.

Students are urged to select courses in accordance with a definite plan, and with a definite object in view. Those looking forward to teaching or working in small towns or rural districts especially should bear in mind that the number of trained workers in any given department is likely to be small and the facilities limited. They should therefore use their choice of electives in acquiring knowledge or skills that will be of immediate use to them in such communities. Courses in general agriculture, animal husbandry, commercial industries, industrial arts, foods and clothing may prove to be most beneficial as electives for such students. These are strongly recommended as electives for such teachers and workers.

### REQUIRED COURSES FOR FRESHMEN AND SOPHOMORES

|                                                                | Hours  |
|----------------------------------------------------------------|--------|
| English 211, 212, 213 .....                                    | 15     |
| English 220, 221, 222 or 223 .....                             | 5      |
| Foreign language (one language) .....                          | 10-15* |
| Mathematics 311, 312 .....                                     | 10     |
| History 211, 212, or 213; 221 or 222 .....                     | 15     |
| Chemistry 111, 112, or Physics 321, 322 .....                  | 10     |
| Biological Science (Botany 111, Zoology 111) .....             | 10     |
| Music 211, 212, 213, 221, 222, 223,<br>or                      |        |
| Art 314, 315, 316, 327, 328, 329 .....                         | 6      |
| Military Science, 211, 212, 213, 221, 222, 223 (for men) ..... | 12     |
| Physical Education, six quarters (for women) .....             | 6      |
| Orientation (Ed. 211, 212, 213) .....                          | 3      |
| Vocations .....                                                | 6      |

\* See No. 1 under Graduation Requirements.

## SAMPLE SCHEDULE

The following are typical examples of how normal schedules might be arranged. Others more in accord with the student's interest and aptitude might be selected:

## Freshmen

|                               |          |          |          |
|-------------------------------|----------|----------|----------|
| Eng. 211, 212, 213 .....      | 5(5-0)   | 5(5-0)   | 5(5-0)   |
| Math. 311, 312 .....          | 5(5-0)   | 5(5-0)   | .....    |
| Hist. 211 .....               | .....    | .....    | 5(5-0)   |
| Ed. 211, 212, 213 .....       | 1(0-2)   | 1(0-2)   | 1(0-2)   |
| Mil. Sci. 211, 212, 213 ..... | 2(3-2)   | 2(3-2)   | 2(3-2)   |
| or                            |          |          |          |
| Physical Education .....      | 1(0-2)   | 1(0-2)   | 1(0-2)   |
| Mus. 211, 212, 213            |          |          |          |
| or                            |          |          |          |
| Art 314, 315, 316 .....       | 1(0-2)   | 1(0-2)   | 1(0-2)   |
| Vocations .....               | 3(0-6)   | 3(0-6)   | 3(0-6)   |
|                               | <hr/> 18 | <hr/> 18 | <hr/> 18 |

## Sophomores

|                                  |          |          |          |
|----------------------------------|----------|----------|----------|
| Eng. 222, 223, 220, or 221 ..... | 5(5-0)   | 5(5-0)   | 5(5-0)   |
| Chem. 111, 112                   |          |          |          |
| or                               |          |          |          |
| Phy. 321, 322 .....              | 5(3-4)   | 5(3-4)   | .....    |
| Bot. 111 .....                   | 5(3-4)   | .....    | .....    |
| Zool. 111, 121 .....             | .....    | 5(3-4)   | 5(3-4)   |
| Math. 313 .....                  | .....    | .....    | 5(5-0)   |
| Mil. Sci. 221, 222, 223 .....    | 2(3-2)   | 2(3-2)   | 2(3-2)   |
| or                               |          |          |          |
| Physical Education .....         | 1(0-2)   | 1(0-2)   | 1(0-2)   |
| Mus. 221, 222, 223               |          |          |          |
| or                               |          |          |          |
| Art 327, 328, 329 .....          | 1(0-2)   | 1(0-2)   | 1(0-2)   |
|                                  | <hr/> 19 | <hr/> 19 | <hr/> 19 |

COURSES PRELIMINARY TO ADMISSITON TO  
MEDICAL COLLEGE

This institution has been rated as class "A" by the American Medical Association as to qualifications for giving pre-medical training. Students completing the prescribed course may therefore be admitted to the medical colleges of this country without examination.

All students planning for the study of medicine are urged, however, to complete the four-year course and receive their degree before entering a medical school.

### PRE-MEDICAL COURSE

Students are advised to select subjects in college which assure a broad background for later medical study rather than merely confining themselves to courses and fields required in the medical curriculum. Electives should include psychology, political science, history, economics, sociology, and mathematics.

The following represent the minimum requirements in general for admission to class "A" medical schools:

|                                                       | Quarter Hours |
|-------------------------------------------------------|---------------|
| *Chemistry (inorganic) .....                          | 15            |
| Chemistry (organic) .....                             | 9             |
| Physics .....                                         | 15            |
| Biology .....                                         | 12            |
| English (composition and literature) .....            | 13            |
| A modern foreign language (a reading knowledge) ..... | 12            |
| Electives .....                                       | 10-18         |

Most medical colleges recommend at least one year of college mathematics.

### ADVANCED STANDING

Students who transfer from accredited colleges will be given credit for previous work done, upon presentation of records to the proper authorities, who will evaluate them.

### OPPORTUNITIES FOR WOMEN

All courses in the College are open to women on the same basis as men. There is a great demand for well-trained women not only as teachers but in practically all fields of endeavor. Accordingly, women registering in the teacher training division may, with approval of their advisers, select courses in any other division or department of the institution.

The aim of this division is to give the women as well as the men who plan to teach every opportunity to take full advantage of all the facilities of the College in developing the best and most comprehensive training possible.

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\* Pre-medical students and majors or minors in Chemistry should register for Chemistry 111, 112, and 113 in successive quarters.

# THE GRADUATE DIVISION

W. L. KENNEDY, *Chairman*

## GENERAL STATEMENT

The Agricultural and Technical College of North Carolina offers to qualified students the opportunity to pursue advanced courses and to undertake research in agriculture, technical and applied sciences. All the technical and scientific departments give courses and direct research leading to the various Master of Science degrees.

The object of graduate study differs somewhat from that of undergraduate study. While extending the range of the student's knowledge still further, the constant aim is to develop initiative, judgment, and the power of independent thought.

The work of the Graduate Division is under the general control of the Graduate Committee. The Chairman of the Graduate Committee is charged with general supervision of all graduate students and is the medium of communication between such students and the college administration. The faculty consists of such members of the instructional staff as have immediate supervision of graduate courses.

## ADMISSION

Admission to the Graduate Division may be granted to graduates of institutions whose requirements for the baccalaureate degree are substantially equivalent to those of The Agricultural and Technical College of North Carolina.

Admission is granted by the College Registrar. If the applicant has attended more than one institution, two official transcripts of the work covered at each institution are required. This applies to the complete academic record, both undergraduate and graduate. Official credentials should be sent directly from institutions to the Registrar. Failure to give attention to this important point in advance can lead only to delay in registration.

Prospective students may make inquiries at any time regarding the possibilities of graduate study. Matters having to do with admission should be addressed to the College Registrar. Blanks to be used in making applications for admission

are obtained from the Registrar. General inquiries regarding graduate work may be addressed to the Chairman of the Graduate Committee. Students should not hesitate to write directly to a department head if they have specific questions regarding the work of a department.

### **REGISTRATION**

All students must register at the beginning of each quarter or summer term. The registration days are indicated in the College Calendar. Graduate students are allowed three days for registration following the regular registration days before the late fee of \$3.00 is imposed.

The student must prepare each term a program satisfactory to the major department. When this schedule is approved by the Chairman of the Graduate Committee, the student shall present himself at the office of the Registrar and shall fill out such blanks as may be required.

The payment of the required fees at the Bursar's office completes the registration.

### **CHANGES IN STUDY-LISTS**

A graduate student is expected to plan his work so carefully that changes in his study-list during the quarter will not be necessary. When a change is advisable, however, it may be permitted without fee if made within one week of the date of registration. After that date, a fee of one dollar is charged for each change.

### **REQUIREMENTS FOR MASTER'S DEGREE**

Candidates for the degree of master of science are required to do at least one full year's work in residence, including a thesis. If work is done during the summer session, a minimum of four six-weeks sessions of study and residence is required. A minimum of forty-five quarter hours or thirty semester hours will be required. From three to five hours credit will be given for the thesis, the number of hours being determined by the department head. Only first-rate students will be permitted to secure a degree in this minimum time.

Of the total number of hours required for a master's degree one-half must be in the major field of study and the remain-

ing half is to be distributed in not more than two other fields. The mere completion of a stated amount of work does not entitle a candidate to recommendation for a degree. He must pass examinations upon such subjects and at such times as shall be designated by the department concerned.

### **THESIS**

A thesis based upon research in the major department is required of every candidate. The thesis must demonstrate the candidate's ability to do independent study and must be acceptable in literary style and composition. A thesis offered in partial fulfillment of the requirement for a Master's degree must be typewritten and bound according to specifications furnished by the Graduate Division, and before it is accepted, it must be approved by the major professor under whose guidance the research has been done. Two copies shall be deposited in the College Library two weeks before graduation, and its title, as approved by the major professor, will appear on the official Commencement program.

### **SCHOLARSHIP**

Graduate students are expected to maintain a high degree of scholarship. Grades will be reported as "A" Excellent, "B" Good, "C" Average, "D" Poor and "F" Failed. A graduate student must obtain "A" or "B" in thirty-five hours of the work offered toward a degree. A graduate student who fails in any course in his major subject cannot secure a degree in the same school year that the failure occurs. No conditional examination is given graduate students.

As designated under Description of Courses, the courses numbered 600-699 are for graduate students only. Courses numbered 500-599 are for graduates and undergraduates.

### **PERIOD OF REGISTRATION FOR DEGREE**

It is desirable that graduate students complete the work for the master's degree within a reasonable time. A candidate who does not complete his work within a period of five years from registration will be required to start anew to meet the requirements for the degree.

**CANDIDACY FOR MASTER'S DEGREE**

Admission to the Graduate Division does not imply admission to candidacy for a degree. After a period of two summer sessions, or one quarter, the Graduate Committee will examine the candidate to determine his fitness for a degree.

**FEES**

The graduate student will pay five dollars when he matriculates and two dollars for each credit hour for all courses.

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(See also Graduate Bulletin)

# DESCRIPTION OF COURSES

## AGRICULTURAL SCIENCES

### MAJOR IN AGRONOMY

(NOTE: The Major in Agronomy is for those students who desire to go into the practical phases of agriculture dealing specifically with soils and crops. The major will prepare those students who are interested in entering Farm Security Work, Soil Conservation or Civil Service Work in Soil Science. The ground work is also laid for advanced study in several phases of soil technology.

The work for the student majoring in Agronomy will differ from that set up in the Uniform Curriculum for Agriculture in that Zoology or Botany will not be required until the Sophomore year.

All Freshmen or transfer students who plan to register for a major in Agronomy must first secure the approval of the Dean of the Department of Agriculture and the instructor in charge of the work.)

#### Junior Year

|                                 | Fall   | Winter | Spring |
|---------------------------------|--------|--------|--------|
| Agronomy 141 .....              | 3(2-2) | .....  | 5(3-4) |
| Zoology 111 or Botany 111 ..... | .....  | .....  | .....  |
| Chemistry 121 .....             | 5(3-4) | .....  | .....  |
| Economics 143, 142 .....        | 5(5-0) | .....  | 5(5-0) |
| Dairy 145 .....                 | .....  | .....  | 4(2-4) |
| Agronomy 143, 501, 131 .....    | 3(2-2) | 3(2-2) | 3(2-2) |
| Rural Engineering 120 .....     | 3(0-6) | .....  | .....  |
| Electives .....                 | 6( )   | .....  | .....  |

#### Senior Year

|                                   | Fall   | Winter | Spring |
|-----------------------------------|--------|--------|--------|
| Horticulture 123 .....            | .....  | .....  | 3(2-2) |
| English 224 .....                 | .....  | 3(2-0) | .....  |
| Agronomy 503 .....                | .....  | .....  | 4(2-4) |
| Agronomy 140, 144 .....           | 4(2-4) | .....  | 3(0-6) |
| Animal Husbandry 141 .....        | 3(2-2) | .....  | .....  |
| Animal Husbandry 131 .....        | 3(2-2) | .....  | .....  |
| Botany 123 .....                  | 3(2-2) | .....  | .....  |
| Rural Sociology 501 .....         | .....  | 3(3-0) | .....  |
| Rural Engineering 119 or          |        |        |        |
| Horticulture 145 .....            | .....  | 3(1-4) | .....  |
| Economics 501, 505 .....          | .....  | 3(1-4) | 3(3-0) |
| Horticulture 131, Electives ..... | 3(2-2) | 3( )   | 3( )   |

Approved Electives for the Major in Agronomy. Other electives may be taken with the approval of the instructor in Agronomy.

| Fall            | Winter                 | Spring              |
|-----------------|------------------------|---------------------|
| English 231     | Rural Sociology 512    | Botany 121          |
| Typewriting 317 | Economics 504          | Sociology 233       |
| Sociology 231   | Geology 240            | Rural Sociology 503 |
| Geology 131     | Agronomy 133, 504, 523 | I. A. 350           |
| Agronomy 132    | M. E. 317<br>I. A. 349 | Agronomy 533        |

## COURSES IN AGRONOMY

### For Undergraduates

**122. Nature and Properties of Soils.** This course deals with the origin, formation and classification of soils and their chemical relationships, also the chemical, physical and biological properties, with reference to composition and plant relations of soils. Winter. Prerequisite: Chem. 114. Credit 3(2-2).

**123. Soil Management.** This is a continuation of Agronomy 122, and it deals with the methods of soil utilization, including the methods of fertilization of soils, the mixing and applying commercial plant foods, the use of green manure, stable manure, lime and the influence of crop rotation and fertilizer on the soils as shown by field tests and experiments. Prerequisite: 122. Spring. Credit 3(2-2).

**131. Field and Forage Crops.** This course consists of a study of the main field and forage crops in North Carolina. It includes lectures and recitations together with appropriate laboratory exercises on these crops. Attention is paid in detail to the following phases of the subject: history, production, culture, harvesting, uses, State-approved varieties. Prerequisite: 122. Spring. Credit 3(2-2).

**132. Forage Crops.** This course supplements the course Agronomy 131 for Agronomy majors and special students. It covers in a very detailed manner the major forage crops adapted to North Carolina. Some phases of the field covered are crops adapted to the State, selection of forage crops, se-

lection and preparation of land for forage crops, emergency forage production, making and curing hay, making and preserving silage, production and management of pastures. Laboratory work includes identification of forage crop seeds and forage crop materials in both the growing and cured stages. Prerequisite: 122. Fall. Credit 3(2-2).

**133. Field Crops.** This course supplements the course, Agronomy 131 for Agronomy majors and special students. It consists of a study of the major field crops of North Carolina excepting cotton and tobacco. It covers the following aspects of the field: history, varieties and adaptation of crops, selection of land and fertilizers, cultural practices in production place in the rotation and soil conservation plan. Laboratory will consist of identification of seed or field crops, study of seed quality, seed judging and identification of field crops by vegetative and fruiting parts. Prerequisite: 122. Winter. Credit 3(2-2).

**140. Soil Conservation.** This course is a study of the nature, causes, occurrences and importance from an economic standpoint, of soil erosion. Attention is given to the several phases of soil conservation as counter checks against erosion, farm planning, land use planning, reforestation, terracing, strip cropping, contour farming and crop adaptations. Field trips will be arranged for study and practice on actual problem cases. A fee may be charged at the discretion of the instructor, to pay for transportation. Prerequisite: 122, 123, 131. Fall. Credit 4(2-4).

**141. Tobacco.** This course includes lectures recitations and laboratory on the history, production, adaptation, type, varieties cultivation, harvesting, grading, marketing, diseases and control measures, based on conditions in North Carolina. Prerequisites: 122, 123. Fall. Credit 3(2-2).

**143. Cotton.** This course includes lectures and recitations on the history, origin, production, adaptation, varieties, cultivation, harvesting and grading with some reference to marketing, diseases and control measures, rotation and the upkeep of soil fertility under long time cropping systems. Prerequisites: 122, 123. Fall. Credit 3(2-2).

**144. Farm Experiences.** This course will provide the student with practical participating farm experiences on the College Farm until he can demonstrate reasonable skills in the more commonly met farm activities as: care of workstock, harnessing workstock, care and repair of harness, repair of farm machinery, operation of farm tools and machinery including the tractor, laying out fields and use of various tools in common cultivation activities. All Agronomy majors must register for the course and demonstrate efficiency to the satisfaction of the Farm Superintendent, who will be in charge of the work. All or any part of this work may be waived at the decision of the Farm Superintendent. Prerequisites: 122, 123, 131. Spring. Credit 3(0-6).

#### **Graduates and Advanced Undergraduates**

**501. Soils.** A course in advanced soil problems for graduates and advanced undergraduates. Prerequisite: 123. Winter. Credit 3(2-2).

**502. Cotton (Advanced).** A study of universal standards of American upland cotton, for grade and staple. Factors that determine grade and how to improve them. Practice will consist in classing. Prerequisite: 1434. Credit 3(2-2). Quarter by arrangement.

**503. Soil Survey.** The making of detailed soil maps and the writing of soil survey reports. Prerequisite: 123. Spring. Credit 4(2-4).

**504. Fertilizers.** A study of the sources, manufacture, characteristics, and utilization of fertilizers; calculation of formulas. Prerequisites: 123, 131. Winter. Credit 3(2-2).

**521. Advanced Cotton Production.** Advanced study of cotton production problems. Prerequisites: 123, 143. Credit 3(2-2). Quarter by arrangement.

**522. Seed Certification Problems.** A study of standards of quality in field crops for certification. Prerequisite: 131. Credit 3(2-2).

**523. Seed Judging.** Advanced study of quality in crop seeds and standards for seed certification. Arranging and judging of crop exhibits. Prerequisite: 131. Fall. Credit 3(1-4).

**531. The Soils of North Carolina.** The origin, characteristics, plant adaptation, and fertilizer needs of North Carolina soil types. Prerequisite: 122. Credit 3(2-2). Quarter by arrangement.

**533. Legumes and Grasses.** Advanced study of legumes and grasses as to their adaptation and uses. Emphasis is placed on their economic use in crop and livestock farming. Prerequisite: 122. Spring. Credit 3(2-2).

**534. Crop Greeding.** Principles of plant breeding reviewed and applied to the principal North Carolina field crops; hybridization, and breeding for special qualities. Prerequisites: 131, 132, 133. Credit 3(2-2). Quarter by arrangement.

#### Graduates Only

**601. Research in Crops.** Special problems chosen by the student or assigned by the instructor. Credit and quarter to be arranged.

**602. Research in Soils.** Special problems chosen by the student or assigned by the instructor. Credit and quarter to be arranged.

### MAJOR IN ANIMAL HUSBANDRY

| Junior Year              |        |        |        |
|--------------------------|--------|--------|--------|
|                          | Fall   | Winter | Spring |
| An. Husb. 131, 132 ..... | 5(3-4) | 3(2-2) | 3(2-2) |
| Elective .....           |        | 6( )   | .....  |
| Dairy 132, 146 .....     | 5(3-4) | 4(2-4) | .....  |
| Agron. 131, 141 .....    | 3(2-2) | .....  | 1( )   |
| Bact. 121 .....          | .....  | .....  | .....  |
| Econ. 231, 142 .....     | 5(5-0) | .....  | 5(5-0) |
| Botany 121 .....         | .....  | .....  | 3(2-2) |

| Senior Year               |        |        |        |
|---------------------------|--------|--------|--------|
|                           | Fall   | Winter | Spring |
| An. Husb. 134 .....       | 3(3-0) | .....  | .....  |
| Zool. 134 .....           | 3(3-0) | .....  | .....  |
| An. Husb. 141 .....       | 3(2-2) | .....  | .....  |
| *Electives .....          | .....  | .....  | 9( )   |
| Hort. 133 .....           | .....  | 4(2-4) | .....  |
| Econ. 232 .....           | .....  | 5(5-0) | .....  |
| Poultry 133 .....         | .....  | 3(2-2) | .....  |
| Botany 123 .....          | 3(2-2) | .....  | .....  |
| Econ. 143 .....           | 5(5-0) | .....  | .....  |
| Rural Eng. 141, 142 ..... | .....  | 3(2-2) | 3(0-6) |
| Special Problems .....    | .....  | .....  | 3(0-6) |

Electives for animal husbandry majors: business administration 335, 339 and as indicated for agricultural students.

## **COURSES IN ANIMAL HUSBANDRY**

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### **For Undergraduates**

**121. Principles of Dairying.** This course takes up secretion, composition, testing and separation of milk; the farm manufacture of cheese, butter and ice cream.

**122. Farm Animals.** A study of general farm animals. Special attention is given to sheep, horses, mules and beef cattle. The different breeds of the animals named as well as their care and management will be considered. Winter. Credit 3(2-2).

**131. Diseases of Farm Animals.** This course deals in a general way with the following phases of animal diseases: causes, prevention, treatment, manner of spread, disinfectants and their application, general hygiene, stable sanitation and the location of site including drainage will be given. Prerequisite: 122. Fall. Credit 3(2-2).

**132. Animal Nutrition.** This is a study of the general principles of nutrition as applied to livestock, composition of feed stuffs, comparisons of feeding standards, calculating rations, methods of feeding for economical production. Prerequisite: 122. Fall. Credit 5(3-4).

**133. Animal Breeding.** A study of the principles of genetics as applied to the improvement of farm animals, and some of the methods and problems of the breeder. Prerequisites: 122, 131. Credit 3(3-0).

**134. Feeding of Dairy Cattle.** A study of special problems pertaining to the feeding of dairy cattle; feeding for high market production; practices in balancing rations. Prerequisite: 132. Credit 5(4-2).

**141. Swine Production.** A study of practical hog raising stressing such points as breeds, breeding, selecting breeding stock; feeding, diseases, insect pests and sanitation. Prerequisites: 122, 131. Fall. Credit 3(2-2).

**145. Practical Dairying.** A study of dairy barn construction, barn sanitation and disinfectant, dairy bacteriology and the

methods of sterilization, standardization and pasteurization of milk and cream; making artificial buttermilk, cottage cheese and cream cheese; preparing and marketing of milk, cream and other milk products. Prerequisite: 122. Spring. Credit 4(2-4).

**146. Dairy Herd Management.** A course in feeding and management of the dairy herd. It includes a study of pedigrees, handling test cows, advanced registration, fitting cows for show and for sale.

#### **Graduates and Advanced Undergraduates**

**502. Farm Meats.** The course includes killing, dressing, cutting, curing and smoking, sausage making and meat inspection. Trips will be made to the City Abattoir to supplement work done at the College. Prerequisite: 122. Fall. Credit 3(1-4).

**504. Ice Cream Making (formerly Dairy 132).** A study of the manufacturing of ice cream, sherberts and ices on a private or commercial scale, marketing and scoring and judging. Prerequisite: 122. Spring. Credit 5(3-4).

**512. Marketing Livestock.** Developments and markets including the packing industry, methods of marketing and factors affecting receipts and prices of market animals.

**513. Advanced Livestock Judging.** Advanced judging of horses, cattle, sheep and swine; history, purposes and organization of breeding associations; use of herd books; tabulations and a study of pedigrees; the work and methods of constructive breeders.

**514. Anatomy and Physiology of Domestic Animals.** A study of viscera, general physiology and pathology.

**515. Dairy Bacteriology.** The significance and classification of bacteria in milk and milk products and laws relating thereto; equipment and methods used in laboratories. Interpretation of bacterial counts and milk and its products. Prerequisite: Bact. 121. Fall. Credit 3(2-2).

**521. Problems in Dairy Technicology.** Technical problems relating to the manufacture of dairy products; methods of experimentation.

**522. Advanced Animal Nutrition.** The principles and facts of the science of animal nutrition and economic feeding, practices with special attention to recent discoveries pertaining to quality in the protein, mineral requirements and the vitamins.

**526. City Milk Supply.** The phases of the City Milk Supply from the standpoint of the Milk Inspector and the Board of Health; the methods and processes used in a central pasteurizing milk distribution plant and the dairymen supplying milk to same; the raw retail milk distributor and his problems. Prerequisite: 505. Winter. Credit 3(2-2).

#### For Graduates Only

**601. Research Studies in Animal Husbandry.** An intensive study and experimental data. Time and credit to be arranged.

**602. Special Problems in Dairy Husbandry.** Available for graduate students interested in such special dairy problems under definite supervision and approval. Time and credit to be arranged.

**603. Seminar.** Members of the Seminar will be assigned subjects which will be reviewed and discussed. Review of literature, scientific reports and experimental station bulletins. Oral and written reports. Time and credit to be arranged.

#### MAJOR IN POULTRY

| Junior                    | Fall   | Winter | Spring |
|---------------------------|--------|--------|--------|
| An. Husb. 132 .....       | 3(2-2) | .....  | .....  |
| Electives .....           | .....  | 6( )   | .....  |
| Dairy 134, 145, 146 ..... | 5(4-2) | 4(2-4) | 4(2-4) |
| Agronomy 131 .....        | 3(2-2) | .....  | .....  |
| Bacteriology 121 .....    | .....  | .....  | 5(3-4) |
| Economics 231, 142 .....  | 5(5-0) | .....  | 5(5-0) |
| Botany 121 .....          | .....  | .....  | 3(2-2) |
| Math. 316 .....           | 3(3-0) | .....  | .....  |

| Senior                    | Fall   | Winter | Spring |
|---------------------------|--------|--------|--------|
| Poultry 131, 132 .....    | 3(2-2) | 3(2-2) | .....  |
| Zoology 134 .....         | 3(3-0) | .....  | .....  |
| Electives .....           | .....  | .....  | 6( )   |
| Hort. 122 .....           | .....  | 4(2-4) | .....  |
| Economics 232 .....       | .....  | 5(5-0) | .....  |
| Poultry 133 .....         | .....  | .....  | 3(2-2) |
| Botany 123 .....          | 3(2-2) | .....  | .....  |
| Economics 143 .....       | 5(5-0) | .....  | .....  |
| Rural Eng. 141, 142 ..... | .....  | 3(2-2) | 3(0-6) |
| Poultry 134 .....         | 3(2-2) | 3(2-2) | 3(2-2) |

## COURSES IN POULTRY SCIENCE

### For Undergraduates

**111. General Poultry Problems.** A general introductory course that is very practical for those who plan to raise or teach poultry. It stresses such phases of the industry as plant location, selection of site, plant equipment, foods and feeding, flock care, culling, sanitation, insects and diseases. Fall. Credit 3(2-2).

**112. Operation of the Poultry Plant.** Attention will be paid to such factors in economy as the selection and equipment, use of equipment, making simple equipment, cost of equipment, feeding systems, compounding rations, utilizing home grown products in the rations with practical cost study problems. Winter. Credit 3(2-2).

**122. Incubation and Brooding.** The embryology of the chick, then a more detailed study of the theory and actual practice of incubator operation, studies in the construction and operation of different types of incubators and brooder stoves. The chick, its care and management through the first four weeks. Prerequisite: 112. Winter. Credit 3(2-2).

### For Graduates and Advanced Undergraduates

**501. Marketing Poultry Products (formerly Poul. 133).** A study of the theory and practice in classifying, handling, grading and preserving eggs; fattening chickens, handling and dressing. The baby chick business in market. Prerequisite: 112. Winter. Credit 3(2-2).

**502. Poultry Problems (formerly Poul. 134).** Poultry disease problems, nutritional problems, judging problems. Prereq- uisite: 112. Time and credit to be arranged.

**503. Selection and Mating of Poultry.** Methods of recognition and selection for purpose of mating from both standard and utility standpoints. Study of progeny performance. Pre- requisites: 112 and Zool. 134. Credit 3(2-2).

**504. Poultry Nutrition (formerly Poul. 131).** Feeds and feed- ing; physiology of digestion, absorption and elimination; mineral and vitamin requirements. Fall. Credit 3(2-2).

**505. Poultry Judging.** Class and practice work in standard and utility judging of fowls. Selection preparation, breeds for showing. Winter. Credit 3(2-2).

**521. Poultry Diseases (formerly Poul. 130).** Sanitation, para- site infestation and control, contagious and non-contagious diseases of the fowl. Winter. Credit 3(1-4).

**522. Poultry Anatomy.** A study of normal structure of the fowl, including osteology, arthrology, myology, splanchnol- ogy, angrology, enurology and oesthesiology. Prerequisite: 502. Spring. Credit 3(2-2).

**531. Commercial Poultry Plant Management.** A study of poul- try farm organization and management; hatchery manage- ment; the economics of the poultry industry and factors influencing profit in poultry enterprises. Prerequisite: 112. Spring. Credit 3(2-2).

#### Graduates Only

**601. Production Studies and Experiments.** Problems in poul- try nutrition, breeding and commercial poultry production and marketing. Time and credit to be arranged.

**602. Poultry Research.** Problems chosen or assigned. Time and credit to be arranged.

**603. Seminar.** Problems vital to the poultry industry will be discussed by the students and members of the staff. Time and credit to be arranged.

## MAJOR IN ORNAMENTAL HORTICULTURE

| Junior                      | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------|-------------|---------------|---------------|
| Econ. 143, 142 .....        | 5(5-0)      | .....         | 5(5-0)        |
| Agr. 131 .....              | 3(2-2)      | .....         | .....         |
| Bot. 121 .....              | .....       | .....         | 3(2-2)        |
| Art 311, 312, 313 .....     | 3(0-6)      | 3(0-6)        | 3(0-6)        |
| R. Eng. 120 .....           | 3(1-4)      | .....         | .....         |
| Hort. 131, 133 .....        | 3(1-4)      | .....         | 3(2-4)        |
| Bus. 232 .....              | .....       | 5(5-0)        | .....         |
| Elective .....              | 3( )        | 3( )          | 3( )          |
| Elective .....              | .....       | 3( )          | .....         |
| Senior                      | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
| Bus. 237 .....              | 5(5-0)      | .....         | .....         |
| Bot. 123 .....              | 4(2-4)      | .....         | .....         |
| Hort. 141, 142, 143 .....   | 3(1-4)      | 3(1-4)        | 3(1-4)        |
| Hort. 144, 145, 146 .....   | 3(2-2)      | 3(1-4)        | 4(1-6)        |
| R. Eng. 141, 142, 143 ..... | 3(2-2)      | 3(2-2)        | 3(0-6)        |
| Electives .....             | .....       | 6( )          | .....         |

## COURSES IN HORTICULTURE

**113. Vegetable Growing.** This is a study of the general principles involved in vegetable growing. The student will be given an opportunity to carry out some of the principles taught through practical work in assigned plots of which he will have full charge. He will be required to plan, plant and cultivate the assigned plot. Spring. Credit 4(2-4).

**122. Plant Growing.** This is a study of the general principles involved in fruit growing. Consideration will be given to the establishment of commercial orchard establishments. The course will be comprised of a study of locations, sites, soils, fruit varieties, pruning and spraying, and the general practices involved in general orchard management. The importance of the home orchard will also be emphasized. Fall. Credit 3(2-2).

**123. Flower Growing.** This is a study of the general principles involved in amateur flower growing. The course will be comprised of a study of annuals, biennials, perennials, bulbs, roses, and shrubs that are valuable for the home flower garden. Practical experience will be given in planning, planting, and caring for an assigned flower bed. Pre-requisite: Hort. 133. Spring. Credit 3(2-2).

**124. Flower Growing.** This course is designed to further the student's knowledge in specialized flower growing. Attention will be given to detailed development of the private area. Prerequisite: 123. Fall. Credit 3(2-2).

**131. Plant Materials and Propagation.** This course will include the identification of trees, shrubs and vines of North Carolina. The laboratory work will be done largely in the field. The use of these materials in simple landscaping will be stressed. Methods of grafting, budding, seeding, and the making of cuttings will be practiced during the laboratory periods. Fall. Credit 3(2-4).

**133, 134. Landscape Architecture.** This course gives a general survey of the principles of the art of beautifying the home and farm grounds as well as the community and public buildings. Laboratory work will consist of practical work in landscaping projects about the campus and community. Landscaping as a commercial enterprise will be emphasized. Spring. Credit 4(2-4) each quarter.

**141, 142, 143. Greenhouse Management.** This course is designed for such students who desire to enter into commercial enterprises rather than teaching. The course of study will involve the principles of year-round management of a greenhouse establishment, floral arrangement and merchandizing, interior decorations with flowers and plants, soil management, greenhouse heating, ventilation, watering, and general plant culture. Prerequisite: Hort. 123, 131. Fall, Winter and Spring. Credit (each quarter) 3(1-4).

**144. Systematic Horticulture.** The course consists of a study of the characteristics of various varieties of fruits and vegetables in an effort to determine the merits of each variety in its relation to growing conditions and market demands. Fall. Credit 3(2-2).

**145. Horticultural Buildings.** This course consists of the study of the construction of various buildings needed for horticultural enterprises. Hot beds, cold frames, nursery frames, greenhouses, storage houses, packing houses will receive special attention. Winter. Credit 3(1-4).

**146. Special Project.** The student will select some problem after consultation with the instructor and will plan and execute research under supervision. Research reading will be required. The results of the research will be incorporated in a thesis at the end of the quarter. Students in this course must have shown considerable aptitude in all of the other horticultural courses. Quarter to be arranged. Credit 4(1-6).

### **COURSES IN RURAL ENGINEERING**

**111. Agricultural Practice (formerly Rural Engineering 119).** A course to give prospective teachers of agriculture the accepted practical methods to use in starting the school nursery, putting over a community beautification project. This course includes making maps, terracing and the development of the drainage system for the homestead. These activities shall be based on, or related to farm shop practice and skills. They will be carried out on the school farm and in rural communities. Fall, Winter, Spring—Where schedule permits. Credit 3(1-4).

**112. Farm Shop Practice (formerly Rural Engineering 120).** A course given to students who plan to teach Vocational Agriculture. The purpose of this course is to train the student in developing skills in farm practices. The students will be required to furnish their material for personal projects and for practical work. It is required that the student complete this course before his Senior year. Fall, Winter, Spring. Credit 3(0-6).

**141. Introduction of Methods in Farm-Shop Practice (formerly Rural Engineering 121).** A course outlined to prepare trainees, through the introduction of methods and skills for a practical farm shop program in keeping with the National Vocational Acts. Fall Quarter. Credit 3(0-6). Prerequisite: Rural Engineering 110, or evidence of advance shop experience and training as provided for a Vocational Agricultural Program.

**142. Equipment, Materials and Methods of Teaching in a Program of Vocational Agriculture (formerly Rural Engineer-**

ing 122). A course outlined to prepare trainees to select, use, maintain and care for equipment, and materials necessary for the development of shop methods and skills, for a practical farm shop program, in keeping with the National Vocational Acts. Winter Quarter. Credit 3(0-6). Prerequisite: Rural Engineering 1441.

**143. Observation and Directed Farm-Shop Practice Teaching in a Program of Voctaional Agriculture (formerly Rural Engineering 123).** This course is taken simultaneously with practice teaching. Trainees are assigned to various training centers to carry out the practice work in keeping with the National Vocational Acts. Spring Quarter. Credit 3(0-6). Prerequisite: Rural Engineering 141 and 142.

## COURSES IN AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

### AGRICULTURAL ECONOMICS

#### For Undergraduates

**114. Rural Social Economy.** A general course designed to give the student a basic philosophy of the economics of agriculture and rural life. Fall. Credit 3(3-0).

**115. Farm Organization and Management.** The purpose of this course is to give the student a basic understanding of the organizational, managerial, and marketing problems involved in the successful operation of the farm business. Prerequisite: Econ. 114. Credit 3(3-0).

**143. Marketing Farm Products.** A study of the economic principles underlying successful marketing of farm products, market organizations and control, price-making forces and critical examination of the present system of marketing farm products. Fall. Credit 5(5-0).

#### For Graduates and Advanced Undergraduates

**501. Farm Records.** Methods and practice of taking and keeping farm inventories, feed records, crop records, simple financial statements, and analysis and the interpretation of results obtained from farm business transactions. Prerequisite: 142. Credit 3(1-4).

**502. Rural Law.** Classification of farm property; study of farm boundaries, fences, stock law, rents, contracts, deeds, abstracts, mortgages, taxes, and laws governing shipping of farm products. Prerequisite: 142. Credit 3(3-0).

**503. Advanced Farm Management.** A further study of the principles of farm organization and management as applied to typical regions of North Carolina. Occasional field trips will be made to study successful farms. Prerequisite: 142.

**504. Farm Cost Accounts.** Construction and interpretation of cost accounts; relation of cost to price. Cost of production studies and the interpretation of results; closing and analyzing a set of farm cost accounts.

**505. Principles of Cooperation.** A study of the principles underlying cooperative endeavor. Experiences of cooperative associations of farmers are used as illustrative material. Credit 3(3-0).

**506. Marketing Methods and Problems.** A careful study of the problems and methods involved in marketing of farm products. Suggestions for improvement will be stressed. Credit 3(3-0).

**507. Agricultural Finance.** Principles involved in financing the production and marketing of agricultural products. Consideration of farm mortgage credit, personal and intermediate credit, and agricultural taxation. Credit 3(3-0).

**508. Agricultural Statistics.** Statistical methods and their application. Frequency distributions, averages, measurements of variation, their reliability, trend and linear correlation. Classification, tabulation, and graphic representation. Credit 3(3-0).

**For Graduates Only**

**602. Economics of Agricultural Production.** Economic theories applicable to agriculture. The nature and characteristics of the factors of production, the law of variable proportion, the law of diminishing return, and the theory of least cost. Credit 3(3-0).

**602. Farm Organization and Management.** The extension of the economic principles discussed in Agricultural Economics 503 and the application of these principles to the problems of farm organization and management. Credit 3(3-0).

**603. Land Economics.** The economic problems of land classification, ownership and acquisition of land, tenancy and land ownership, the functions of the landlord and the tenant, land valuation and specification. Credit 3(3-0).

**604. Current Problems in Agricultural Economics.** The content of this course will be changed from year to year. Important problems vital to agriculture will be studied as they develop; topics prepared and presented by students and staff members. Credit 3(3-0).

**605. Research in Agricultural Economics.** A consideration of the research method and procedure now being employed by research workers in the field of Agricultural Economics, with special application to far mmanagement and marketing. Credit 3(3-0).

#### For Undergraduates

**233. Rural Home Life.** A survey of the home life of Negroes living on farms and in rural communities, including means and methods of improvement, field and observation tours, will be given in this course. Prerequisite: Soc. 231 or consent of instructor. Credit 5(3-4).

#### For Advanced Undergraduates and Graduates

**501. Rural Social Problems.** This course will explore the development and functioning of basic rural social institutions, cultural backgrounds, standards and methods as related to cooperative effort and social change. Prerequisite: Soc. 231. Credit 3(3-0).

**502. Rural Leadership.** Specific problems of rural life as selection, development, tasks, obligations and opportunities of rural leadership will constitute the scope of this course. Prerequisite: Soc. 231. Credit 3(3-0).

**503. Community Organization.** Community organization, with special reference to organization among rural Negroes is studied in this course. Attention is given to proposed programs of improvement. Graduate students will carry a special problem as a supplement to the regular course work. Prerequisite: Consent of instructor. Credit: Undergraduate, 3(3-0); Graduate, 4(3-2).

**504. Research in Rural Sociology.** Research problems in population, community organization, family life, standards of living, social attitudes, etc. will be investigated by the student in this course. Attention is also given to the methodology of contemporary research in these fields. Prerequisite: Consent of Instructor. Credit 3(3-0).

**505. Seminar.** The structural characteristics and classification of different types of rural social groups as related to their functions are studied. Prerequisite: Consent of Instructor. Credit 3(3-0).

### AGRICULTURAL EDUCATION AND VOCATIONAL AGRICULTURE

**Ed. 141. Materials and Methods of Teaching Vocational Agriculture.** Principles of teaching with application to Vocational Agriculture. The requirements of a teacher; responsibilities; objectives of Vocational Agriculture; school control; student motivation and directed study. Fall Quarter. Credit 3(3-0). Prerequisites: Ed. 237; Ed. 238; and Ed. 231.

**Ed. 142. Materials and Methods of Teaching Vocational Agriculture.** The following topics are considered: Vocational Acts, the Agriculture Curriculum, seasonable sequence of topics, lesson plans, laboratory work. Classroom organizing and conducting Day-Unit and All-day classes based on farm and community needs. Prerequisite: Ed. 141. Winter Quarter. Credit 3(3-0).

**Ed. 143. Materials and Methods of Teaching Vocational Agriculture.** Use of illustrative and actual materials in teaching Vocational Agriculture; collecting and preservation of

specimens; chart making; practice in use of materials in directed teaching. Prerequisites: Ed. 141; Ed. 142. Spring Quarter. Credit 3(3-0).

**Ed. 144. Observation and Directed Practice in Teaching in Vocational Agriculture.** In this course, students are assigned to training centers where observation and directed teaching will be carried on during the quarter. The trainees must submit all materials to the Agricultural teacher of the assigned Department for his approval. Prerequisites: Ed. 141; Ed. 143; Ed. 503; Ed. 501. Spring Quarter. Credit 3(3-0).

**148. Extension Service.** A study of the developments of the Agricultural Extension Service in the United States, with special reference to the status of this service among the Negroes in the Southern States; also a study of the rules, regulations and special methods relative to this work in North Carolina. Prerequisite: All work below senior year. Fall. Credit 5(5-0).

**149. Practice in Extension Service.** This course follows Education 148 and gives the trainee an opportunity to practice some of the special methods considered in the previous course. Prerequisite: Ext. Ed. 178. Winter. Credit 5(0-10).

**180. Extension Problems.** This course deals with special problems in extension. Prerequisite: Ext. Ed. 149. Winter. Credit 3(0-6).

#### SUGGESTED GRADUATE MAJOR IN AGRICULTURAL EDUCATION

|                                                                               |                |
|-------------------------------------------------------------------------------|----------------|
| Agricultural Ed. 501. Evening School and Part-Time Work .....                 | Credits 3(3-0) |
| Agricultural Ed. 502. Problem Teaching in Vocational Ag. .....                | Credits 3(3-0) |
| Agricultural Ed. 504. The Principles of Agricultural Ed. .....                | Credits 3(3-0) |
| Agricultural Ed. 505. Guidance and Group Instruction .....                    | Credits 3(3-0) |
| Agricultural Ed. 601. Administration and Supervision .....                    | Credits 3(3-0) |
| Agricultural Ed. 602. Curriculum Construction in Vocational Agriculture ..... | Credits 3(3-0) |

|                                                                |                |
|----------------------------------------------------------------|----------------|
| Agricultural Ed. 604. Community Problems in Agriculture .....  | Credits 3(3-0) |
| Agricultural Ed. 605. Problems in Educational Psychology. .... | Credits 3(3-0) |
| Industrial Ed. 521. Philosophy of Vocational Education .....   | Credits 3(3-0) |
| Agricultural Ed. 606. Research in Education.....               | Credits 3(3-0) |

(Thesis 5-10 hours)

Major 30 hours, minor 15 hours. A split minor may be taken making a major and minor 45 hours.

### For Graduates and Advanced Undergraduates

**501. Evening School and Part-Time Work.** This course deals with the principles and problems of setting up and directing adult groups and out-of-school groups; collecting and arranging materials for evening class instruction shall be given considerable space in the course. Credit 3(3-0).

**502. Problem Teaching in Vocational Agriculture.** This course shall consist of setting up problems for teaching unit courses in Vocational Agriculture. Credit 3(3-0).

**503. The New Farmers of America.** This course shall consist of a study of the practice and policies of setting up local, district and state organizations. Special space shall be given to training the officers and members to perform. Credit 3(3-0).

**504. The Principles of Agricultural Education.** Consideration of the Principles and Practices in Agricultural Education in keeping with the research and present trends. Credit 3(3-0).

**505. Guidance and Group Instructions.** Group instructions applied to Vocational Agriculture study of the agricultural occupations, guidance and counseling with special reference to pupils in Vocational Agriculture. Credit 3(3-0).

### For Graduates Only

**601. Administration and Supervision.** Administrative and supervisory problems of Vocational Agriculture. This course consists of a study in the practices and policies of local, State and Federal problems dealing with administration and supervision of Vocational Agriculture. Credit 3(3-0).

**602. Curriculum Construction in Vocational Agriculture.** Building Unit Courses in Vocational Agriculture and selecting subject matter to use with the course along with the common problem evaluating the content of the course. Credit 3(3-0).

**603. History of Vocational Agriculture.** A brief review of Vocational Education in Europe and America. Special space to be given to the Vocational Agriculture as it developed in the United States. Credit 3(3-0).

**604. Community Problems in Agriculture.** This course shall consist of finding the common problems of the community that relate to Agriculture and developing desirable solutions for said problems. Credit 3(3-0).

**Ed. 606. Research in Vocational Education.** The student will make a study of one or more research problems under the supervision of some member of the Staff of the Vocational Education Division. Credit 3(3-0).

**Ed. 607. Agricultural Educational Seminar.** A critical review of current articles and books of interest to students of Agricultural Education. Credit 3(3-0).

## **GEOLOGY**

**131. General Geology.** A general discussion of geologic forces and their results, dealing chiefly with the principal facts of the science, with reference to the agencies affecting changes in the earth's form. The course includes a study of composition of the earth, soil-forming minerals and characteristics. Rocks and their identification, weathering, residual soil formed from various rocks. The work of winds, ground water stream and their work, alluvial deposits. Glaciation of glacial soils, oceans, lakes and inland waters, together with interpretation of geologic and soil maps. Fall or Winter. Credit 5(4-2).

# DEPARTMENT OF ARCHITECTURAL ENGINEERING

The objective of the course in architectural engineering is to provide a sound training in subjects basic to the engineering design and construction of buildings.

In order that the students may acquire self-reliance, they are increasingly thrown upon their own resources as they advance from year to year.

In recognition of the many directions toward which an architectural education may guide students in this field, the Department of Architectural Engineering announces that electives in related work may be chosen by students of good standing with the approval of the Head of the Department in substitution of suggested electives.

The course of architectural engineering covers four years and leads to the degree of Bachelor of Science in Architectural Engineering.

## Freshman Year

See First Year's Curriculum of Mechanic Arts.

## Sophomore Year

|                                             | Fall   | Winter | Spring |
|---------------------------------------------|--------|--------|--------|
| Working Drawings, A. E. 334, 335, 336.....  | 3(1-4) | 3(1-4) | 3(1-4) |
| General Physics, Physics 321, 322, 323..... | 5(4-2) | 5(4-2) | 5(4-2) |
| Mathematics, Math. 321, 322, 323.....       | 5(5-0) | 5(5-0) | 5(5-0) |
| Military Science, M. S. 321, 322, 323.....  | 2(3-2) | 2(3-2) | 2(3-2) |
| Arch. Design, A. E. 321, 322, 323.....      | 4(1-8) | 4(1-8) | 4(1-8) |

## Junior Year

|                                              | Fall    | Winter  | Spring  |
|----------------------------------------------|---------|---------|---------|
| Mechanics, M. E. 331, 332, 333.....          | 5(5-0)  | 5(5-0)  | 5(5-0)  |
| Arch. Design, A. E. 331, 332, 333.....       | 5(0-10) | 5(0-10) | 5(0-10) |
| History of Arch. Art 324, 325, 326.....      | 5(5-0)  | 5(5-0)  | 5(5-0)  |
| Heating and Ventilating, M. E. 334, 335..... | .....   | 3(3-0)  | 3(3-0)  |
| Perspective, A. E. 324.....                  | 3(3-0)  | .....   | .....   |
| Freehand Drawing Art 311, 312, 313.....      | 3(0-6)  | 3(0-6)  | 3(0-6)  |

## Senior Year

|                                           | Fall    | Winter  | Spring  |
|-------------------------------------------|---------|---------|---------|
| Arch. Design, A. E. 341, 342, 343.....    | 5(0-10) | 5(5-10) | 5(5-10) |
| Figure Drawing, Art 341, 342.....         | 3(0-6)  | 3(0-6)  | .....   |
| Concrete Design, A. E. 345.....           | .....   | .....   | 4(3-2)  |
| Architectural Practice, A. E. 346.....    | .....   | 2(4-0)  | .....   |
| Materials of Construction, I. A. 324..... | 3(3-0)  | .....   | .....   |
| Surveying Math. 324.....                  | .....   | .....   | 2(0-4)  |
| Electives .....                           | 7       | 8       | .....   |

**Electives****Non Technical**

French  
English  
Commercial Law  
Economics

**Technical**

Testing Materials M. E. 346  
Electric Wiring I. A. 326

**COURSES IN ARCHITECTURAL ENGINEERING**

**321. Design.** Problems are given in architectural design of small domestic buildings. Prerequisite: M. E. 312. Credit 4(1-8).

**322. Design.** Modeling, of small buildings and landscaping is offered. Prerequisite: A. E. 321. Credit 4(1-8).

**323. Design.** Advance domestic buildings requiring the elements of planting for multiple uses, such as flats and apartments. Prerequisite: 322. Credit 4(1-8).

**324. Perspective.** Drafting principles of architectural perspective in parallel, angular, and aerial views are offered. Prerequisite: M. E. 324. Credit 3(0-6).

**331. Design, Laboratory work.** A series of problems in architectural composition and structural detail is offered. Prerequisite: A. E. 323. Credit 5(0-10).

**332. Design, Laboratory work.** This course is a continuation of 331 emphasizing the design of small public buildings such as, stores and cafeterias. Prerequisite: A. E. 331. Credit 5(0-10).

**333. Design, Laboratory work.** A continuation of 332. Designs of department stores and bank buildings. Prerequisite: A. E. 331. Credit 5(0-10).

**334. Working Drawings.** Analyzing and drawing of architectural and structural engineering details. Prerequisite: A. E. 333. Credit 3(0-6).

**335. Working Drawings.** Combining details in simple structures. Dimensioning of large scale drawings. Prerequisite: A. E. 334. 3(0-6).

**336. Working Drawings.** Correlation of working drawings and specifications is the scope of this course. Prerequisite: A. E. 335. Credit 5(0-10).

**341. Laboratory Work with Individual Criticism.** Industrial engineering designs are studied. Studying structural details such as, plate girder and simple roof trusses of wood and steel. Prerequisite: A. E. 333. Credit 5(0-10).

**342. Laboratory Work with Individual Criticism.** This course involves the selection of the design and presentation of a special project selected by the instructor. Prerequisite: A. E. 341. Credit 5(0-10).

**343. Laboratory Work with Individual Criticism.** A collaborative problem is assigned. This involves the selection of the design and presentation of a special project selected by the instructor. Prerequisite: A. E. 342. Credit 5(0-10).

**345. Concerted Design.** Lecture and recitation. Theory and design of reinforced concrete as applied to columns, beams and slabs for commercial buildings. Prerequisites: A. E. 336. Credit 4(3-2).

**346. Architectural Practice.** A study of procedure in architectural practice. Seminar. Prerequisite: A. E. 343. Credit 2(2-0).

# DEPARTMENT OF BIOLOGICAL SCIENCES

## MAJOR IN BIOLOGICAL SCIENCES

A minimum of ten quarter hours in the biological sciences is required for graduation in the School of Education and Sciences, ten in home economics, and twenty in agriculture.

The following is suggested for those who desire to complete a major in this field of study. This major is recommended for those persons who wish to enter the field of teaching, research, the medical profession or government service.

|                                                            | <b>Junior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|------------------------------------------------------------|--------------------|-------------|---------------|---------------|
| General Physics, Physics 321, 322, 323.....                | 5(4-2)             | 5(4-2)      | 5(4-2)        |               |
| General and Organic Chemistry<br>Chem. 113, 121, 122 ..... | 5(3-4)             | 5(2-6)      | 5(2-6)        |               |
| Plant Physiology, Botany 121 .....                         | .....              | .....       | 3(2-2)        |               |
| Plant Diseases, Botany 123 .....                           | .....              | 3(2-2)      | .....         |               |
| Hygiene, Phys. Ed. 233, 237 .....                          | 3(3-0)             | .....       | 3(3-0)        |               |
| Electives                                                  |                    |             |               |               |

|                                         | <b>Senior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------------------|--------------------|-------------|---------------|---------------|
| Anatomy and Physiology, Zool. 122 ..... | .....              | 5(3-4)      | .....         |               |
| General Bacteriology, Bact. 123 .....   | .....              | .....       | 5(3-4)        |               |
| Genetics, Zool. 142 .....               | .....              | 3(3-0)      | .....         |               |
| Histology, Zool. 132 .....              | .....              | 3(2-2)      | .....         |               |
| Embryology, Zool. 143 .....             | .....              | .....       | 3(2-2)        |               |
| Geography 240, 241 .....                | .....              | 5(5-0)      | 5(5-0)        |               |
| Electives                               |                    |             |               |               |

## MAJOR IN GENERAL SCIENCE

This major was designed to meet the needs of those who plan to teach science in the small high schools of North Carolina. These schools are not able to have a special teacher in each branch of science and require persons whose scientific training is less specialized and more versatile.

|                                          | <b>Junior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|------------------------------------------|--------------------|-------------|---------------|---------------|
| General Physics, Physics, 321, 322 ..... | 5(4-2)             | 5(4-2)      | .....         |               |
| General Science, 131, 132 .....          | 5(4-2)             | 5(4-2)      | .....         |               |
| Entomology, Zool. 133 .....              | .....              | .....       | 5(3-4)        |               |
| Hygiene, Phys. Ed. 233, 237 .....        | 3(3-0)             | .....       | 3(3-0)        |               |
| Chemistry 113, 121 .....                 | 5(3-4)             | 5(2-6)      | .....         |               |
| Electives                                |                    |             |               |               |

|                                       | <b>Senior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|---------------------------------------|--------------------|-------------|---------------|---------------|
| Geography, Geog. 240, 241 .....       | 5(5-0)             | 5(5-0)      | .....         |               |
| General Bacteriology, Bact. 123 ..... | .....              | .....       | 5(3-4)        |               |
| Geology, Geol. 131 .....              | 5(4-2)             | .....       | .....         |               |
| Electives                             |                    |             |               |               |

### COURSES IN BACTERIOLOGY

**123. General Bacteriology.** This course covers the preparation of culture media, isolation of bacteria, the study of morphological characteristics of typical bacteria, morphology of yeasts and molds, fermentation, the relation of bacteria to health of man, and the principles of disinfection and sterilization. Spring. Credit 5(3-4).

**132. Agricultural Bacteriology.** The purpose of this course is to give the student a knowledge of the biological changes which are produced in both animal and plant products. Emphasis is placed on bacterial activities in the soil, their relation to soil fertility, and fermentation in dairy products. Winter. Credit 5(3-4).

### COURSES IN ZOOLOGY

**111. General Zoology.** This course gives a brief survey of the animal kingdom and deals with the morphology, physiology and taxonomy of the essential types of life. Emphasis is placed on the development from protozoa through metazoa. The various theories underlying evolution and the relation of environment to adaptive radiations are discussed. Laboratory work and movies supplement the lectures and class discussions. Any quarter. Credit 5(3-4).

**122. Comparative Anatomy and Physiology.** The lectures on descriptive anatomy will cover the fundamentals from the preparatory point of view and will be illustrated by drawings, plates, models, skeletons and dissection. About one half of the time will be devoted to the study of anatomy. The study of physiology will be facilitated by lectures, demonstrations, movie films and suitable experiments. The study of the functions of the various organs and systems of organs will be emphasized. Winter quarter. Credit 5(3-4).

**143. Embryology.** This course takes up the development, principles and processes of embryology, using vertebrate embryos. Germ cell origin and structure, maturation, fertilization, cleavage, differentiation, tissue formation and organogeny are covered. Spring quarter. Prerequisites: Zool. 111 and 122. Credit 3(2-2).

**133. Entomology.** This course covers the fundamentals of insect structure, insect metamorphosis and development, the economic importance of insects to man, and methods of insect control. Practical methods applicable to farm and home are stressed. Spring quarter. Credit 5(3-4).

**132. Histology.** This course deals with the microscopic structure of tissues of the body. A thorough study of the microscope and proper laboratory techniques are involved. Winter quarter. Prerequisites: Zool. 111 and 122. Credit 3(2-2).

**142. Genetics and Eugenics.** This is a basic course in the study of the principles and mechanism of inheritance in plants, animals and man, and includes methods of improvement through selective breeding. Any quarter. Prerequisite: Zool. 111. Credit 3(3-0).

### COURSES IN GENERAL SCIENCE

**131. The Physical World.** This course is concerned with a survey of the whole field of science. It begins with a study of the universe as a background for understanding the earth and physical sciences and man's relationship with them, and closes with a consideration of those forces that have had greatest influence on human development. Summer or Fall. Credit 5(4-2).

**132. The Biological and Chemical World.** This course is a continuation of General Science 131 and is especially concerned with (1) man and his relationship to the biological and chemical world, (2) how plant and animal life, and (3) how science and inventions have affected civilization. These courses are considered as a unit and both must be completed in order to receive credit. Summer or Winter. Credit 5(4-2).

### Graduates and Advanced Undergraduates

**501. Vertebrate Embryology.** This course deals with the comparative embryology of the principal groups of vertebrates. Prerequisite: 15 hours of zoology. Credit 5(3-4).

**502. Advanced Genetics.** This is a continuation of the study of principles of heredity and variation affecting animals and plants. Credit 3(1-4).

**503. 504. Advanced Histology.** This is a further study of animal tissues, their preparation, and microscopic technique. Credit 3(2-2) each quarter.

**511, 512. Research in Zoology.** Special problems will be investigated through research and experimentation. Prerequisites: 30 hours in science with 15 hours in zoology. Credit 5(2-6) each quarter.

#### Graduates

**601. Special Problems in Insect Control.** This will cover investigation of practical problems in the control of insects affecting field crops, livestock, garden, orchard and home. Credit 5(3-4).

### COURSES IN BOTANY

**111. General Botany.** This course is intended to give the fundamental facts, functions and principles of plant life. Any quarter. Credit 5(3-4).

**121. Plant Physiology.** The plant is considered from the standpoint of activities; absorption, and transportation of raw materials, manufacture, storage of food, growth and movement in response to stimuli. Prerequisite: 111. Spring. Credit 3(2-2).

**123. Plant Diseases.** This course takes into consideration the most important diseases of the important southern crops. Prerequisites: 111, 121. Fall. Credit 3(2-2).

**124. Plant Ecology.** Lectures on the vegetation of North Carolina with special reference to the plant association of the State. Prerequisite: 111. Quarter to be arranged. Credit 3(2-2).

**125. Principles of Forestry.** Relation of forestry to agriculture and economics. Trips will be made to farm woodlots. Spring. Credit 3(3-0).

# DEPARTMENT OF BUSINESS ADMINISTRATION AND COMMERCIAL EDUCATION

During the first two years the student is expected to lay a broad foundation for later specialization. To secure this end the courses in the freshman and sophomore years have been so selected and grouped as to cover all the major fields of knowledge.

## Required Courses for Freshmen and Sophomores

|                                                  |     |
|--------------------------------------------------|-----|
| Eng. 211, 212, 213 .....                         | 15  |
| Eng. Elective .....                              | 5   |
| Math. 311, 312, 315 .....                        | 15  |
| Music                                            |     |
| or                                               |     |
| Art 314, 315, 316, 327, 328, 329 .....           | 6   |
| M. S. 211, 212, 213, 221, 222, 223 for men ..... | 12  |
| Physical Education for Women .....               | 6   |
| Orientation, Ed. 211, 212, 213 .....             | 3   |
| Chem. 111, 112 .....                             | 10  |
| Biological Sc. or Physics .....                  | 10  |
| Sec. Sc. 317, 318, 319 .....                     | 7.5 |
| History 213, 221 or 222 .....                    | 10  |
| Additional Courses in Sec. Sc., Math.,           |     |
| Social Sc. or Eng. .....                         | 15  |
| Com. Ed. Majors must take Sec. Sc. 314, 315, 316 |     |

## BUSINESS ADMINISTRATION

The following is suggested for those desiring to complete a major in the field of business administration.

This major is recommended for those planning to enter one of the practical fields of trade or industry as administrators.

|                                                     | Junior Year | Fall   | Winter | Spring |
|-----------------------------------------------------|-------------|--------|--------|--------|
| Business Management, B. A. 351 .....                | 5(5-0)      | .....  | .....  |        |
| Principles of Retailing, B. A. 346 .....            | 5(5-0)      | .....  | .....  |        |
| Bookkeeping and Accounting, B. A. 332,<br>333 ..... | .....       | 5(5-0) | 5(5-0) |        |
| Principles of Economics, Econ. 231.....             | 5(5-0)      | .....  | .....  |        |
| Economic Problems, Econ. 232 .....                  | .....       | 5(5-0) | 5(5-0) |        |
| Money and Banking, Econ. 233 .....                  | .....       | .....  | 5(5-0) |        |
| Electives .....                                     | 2 Hrs.      | 7 Hrs. | 7 Hrs. |        |
|                                                     | 17          | 17     | 17     |        |

| Senior Year                                 |        | Fall   | Winter | Spring |
|---------------------------------------------|--------|--------|--------|--------|
| Office Management, B. A. 352 .....          | .....  | 5(5-0) | .....  | .....  |
| Personnel Administration, B. A. 353 .....   | .....  | 5(5-0) | .....  | 5(5-0) |
| Commercial Law, B. A. 335 .....             | 5(5-0) | .....  | .....  | .....  |
| Principles of Real Estate, B. A. 357 .....  | .....  | 5(5-0) | .....  | .....  |
| Insurance, B. A. 356 .....                  | .....  | 5(5-0) | .....  | .....  |
| Principles of Salesmanship, B. A. 337 ..... | .....  | .....  | 5(5-0) | .....  |
| Labor Problems, Ec. 234 .....               | 5(5-0) | .....  | .....  | .....  |
| Electives .....                             | 7 Hrs. | 7 Hrs. | 2 Hrs. | .....  |
|                                             |        | 17     | 17     | 17     |

## Suggested Electives

Ec. 254.  
 Sociology, Soc. 231, 232, 233  
 Math. 318.

## COMMERCIAL EDUCATION

The following is suggested for those desiring to complete a major in the field of commercial education.

This major is recommended for those planning to enter one of the practical fields of teaching in high schools.

## MAJOR IN COMMERCIAL EDUCATION

## Junior Year

|                                                             |        | Fall   | Winter | Spring |
|-------------------------------------------------------------|--------|--------|--------|--------|
| Business Management 351 .....                               | .....  | 5(5-0) | .....  | .....  |
| Principles of Retailing, B. A. 346 .....                    | 5(5-0) | .....  | .....  | .....  |
| Bookkeeping and Accounting, B. A. 332, 333 .....            | 5(5-0) | 5(5-0) | 5(5-0) | .....  |
| Principles of Economics, Econ. 231 .....                    | 5(5-0) | .....  | .....  | .....  |
| Economic Problems, Econ. 232 .....                          | .....  | 5(5-0) | .....  | .....  |
| Money and Banking, Econ. 233 .....                          | .....  | .....  | 5(5-0) | .....  |
| Principles of Secondary Education,<br>Ed. 237, or 238 ..... | 3(3-0) | .....  | .....  | .....  |
| Educational Psychology, Ed. 231 .....                       | .....  | .....  | 5(5-0) | .....  |
| Electives .....                                             | .....  | 6 Hrs. | 3 Hrs. | .....  |
|                                                             |        | 18     | 16     | 18     |

## Senior Year

|                                                  |        | Fall   | Winter   | Spring |
|--------------------------------------------------|--------|--------|----------|--------|
| Personnel Administration, B. A. 353 .....        | .....  | .....  | 5(5-0)   | .....  |
| Commercial Law, B. A. 335 .....                  | 5(5-0) | .....  | .....    | .....  |
| Secretarial Studies, Sec. Sc. 322 .....          | 6(2-8) | .....  | .....    | .....  |
| Advanced Stenography, Sec. Sc. 322 .....         | .....  | .....  | 5(5-0)   | .....  |
| Office Training, Sec. Sc. 321a, 321b .....       | 2(2-0) | .....  | 6(0-13)  | .....  |
| Problems of Commercial Teacher, Ed. 250 .....    | .....  | 5(5-0) | .....    | .....  |
| Observation and Practice Teaching, Ed. 251 ..... | .....  | .....  | 5(1-8)   | .....  |
| Office Management B. A. 352 .....                | .....  | 5(5-0) | .....    | .....  |
| Office Appliances, See Sec. Sc. 324 .....        | .....  | .....  | 1.5(0-3) | .....  |
| Electives .....                                  | 5 Hrs. | 3 Hrs. | .....    | .....  |
|                                                  |        | 18     | 18       | 17.5   |

**Suggested Electives**

Math. 318.  
 Ed. 243, 236, 341.  
 Ec. 234, 254.  
 B. A. 337, 356, 357.

**Suggested Minor in Commercial Education**

|                              |     |           |
|------------------------------|-----|-----------|
| Sec. Sc. 314, 315, 323 ..... | 16  | Hrs.      |
| Sec. Sc. 317, 318, 319 ..... | 7.5 | Hrs.      |
| B. A. 332, 339 .....         | 10  | Hrs.      |
|                              |     | 33.5 Hrs. |

**COURSES IN BUSINESS ADMINISTRATION AND COMMERCIAL EDUCATION**

**332. Bookkeeping and Accounting.** This course is specially designed to serve as an introduction to the fundamental principles of bookkeeping and accounting. A thorough study is made of the theory of accounts, principles of debit and credit, special journals and ledger operations, adjustments, financial statements and the handling of different classes of commercial paper. Credit 5(5-0).

**333. Accounting.** This course presents the underlying principles of accounting as it is practiced in the business world. It deals chiefly with corporation accounting and accounting systems. This is followed by a discussion of the principles underlying accounting valuation and interpretation. The uses to which accounting data are to be put are emphasized at every step. Prerequisite: B. A. 332. Credit 5(5-0).

**335. Commercial Law.** Sales of personal property, bailment, common carriers, agency, master and servant, partnership, contracts, corporation, insurance, landlord and tenant, etc. Credit 5(5-0).

**337. Principles of Salesmanship.** This course is based upon actual experience of men successful in the field of salesmanship. It develops the subject from sound economics, philosophical, and psychological points of view. Economics of salesmanship is presented so that the student may see where the work performed is justifiable and necessary in the economic regime. The course includes psychology so

that the student may more readily adjust himself to actual sales conditions and learn why some men and ideas succeed while other fail. Credit 5(5-0).

**339. Business Correspondence.** This course makes a thorough and practical analysis of all forms of business letters and gives constructive information on how to write letters that convince, whether they be sales letters, follow up letters, form letters, complaint, collection, and application letters. This course is required of all students in Business Administration and Secretarial Science. Prerequisites: Eng. 211, 212. Credit 5(5-0).

**346. Principles of Retailing.** This course aims to cover the high points in the retail process of marketing as it is applied especially to the small independent store. Modern grocery and other smaller stores will be used as examples. Detailed studies will be made of store management, finance and control, and marketing. Credit 5(5-0).

**351. Business Management.** Business Management covers the fundamentals of industrial organization and operation and helps the student to gain that basic knowledge of business which should be part of the equipment of every businessman. Credit 5(5-0).

**352. Office Management.** This course covers the principles and methods employed in departmental and centralized offices. Special attention is given to office layout, office system, equipment, selecting workers and general office services. Credit 5(5-0).

**353. Personal Administration.** This is a comprehensive course dealing with the principles and practices in the administration of employees of commercial and industrial establishments. The course is very practical, giving the student a view of personnel as the businessman sees it. Credit 5(5-0).

**356. Insurance.** This course is a survey in a general way of the whole field of insurance. It deals with the nature and statistical basis of different kinds of insurance as property insurance, straight life, endowment, accident, industrial,

old age, fire, livestock, etc. The function of publicity and the needs for educating the public in the principles and services of insurance receives much attention. Credit 5(5-0).

**357. Principles of Real Estate.** This course deals with real estate as a profession, classes of property—suburban, apartment, industrial, farm and resort—rentals, leasing, the work of the broker, property management and financing. Credit 5(5-0).

## DEPARTMENT OF CHEMISTRY

Prospective majors in chemistry should consult the instructors in the department early in their college career so that their major work may be properly planned.

At least ten quarter hours of General Chemistry are required for graduation in Education and Sciences of all who do not take ten hours in general physics.

The following is suggested as a major for those interested in graduate study, research, industry, government service or teaching.

Note: Courses for freshmen and sophomores may be found on pages 41, 45, 50.

### MAJOR IN CHEMISTRY

#### Junior Year

|                                             | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|---------------------------------------------|-------------|---------------|---------------|
| Organic Chemistry, Chem. 121, 122, 123..... | 5(3-4)      | 5(3-4)        | 5(3-4)        |
| Qualitative Analysis, Chem. 131.....        | 5(2-6)      | .....         | .....         |
| Electives                                   |             |               |               |

#### Senior Year

|                                            | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|--------------------------------------------|-------------|---------------|---------------|
| Physical Chemistry, Chem. 141, 142.....    | 5(5-0)      | 5(5-0)        | .....         |
| Quantitative Analysis, Chem. 132, 133..... | 5(2-6)      | 5(2-6)        | .....         |
| Electives                                  |             |               |               |

### COURSES IN CHEMISTRY

#### For Undergraduates

**111. General Chemistry.** This is the first quarter of a course covering the fundamental principles of Chemistry in which are considered the general properties of matter, chemical and physical changes, the fundamental laws governing

these changes, and a study of the important gaseous elements and simple compounds from the point of view of the atomic and molecular theory. Credit 5(3-4).

**112. General Chemistry.** A continuation of Chem. 111. It covers the properties, reactions, and uses of the more important non-metallic elements, atomic structure, and a study of electrolytes. Credit 5(3-4).

**113. General Chemistry.** This is the third quarter of the complete course in General Chemistry. It consists of a detailed study of the metals, including their metallurgy, properties, reactions, and uses. The laboratory work emphasizes the behavior of the metallic ions in solutions and their arrangement in the qualitative groups. Ionic equilibria and oxidation and reduction are considered in detail. Credit 5(3-4).

**114, 115, 116. General Chemistry.** These are courses in General Chemistry designed especially for students in the Department of Home Economics and the School of Agriculture, and should be taken by them in successive quarters of their freshman year. The courses cover the fundamental principles of chemistry; particular attention will be directed toward those topics which are of interest and value to students in home economics and agriculture. Chem. 114. Fall and Winter. Credit 5(3-4). Chem. 115: Winter and Spring. Credit 5(3-4). Chem. 116: Spring and Fall. Credit 5(3-4).

**121. Organic Chemistry.** A course dealing with the chemistry of the carbon compounds. Special emphasis is laid upon the relationship existing between the various groups, and upon methods of organic synthesis. Prerequisites: 111, 112, 113. Fall. Credit 5(3-4).

**122. Organic Chemistry.** A continuation of Chemistry 121, covering such compounds as the ring structure or aromatic compounds. Lectures and laboratory. Prerequisite: Chem. 121. Winter. Credit 5(3-4).

**123. Advanced Organic Chemistry.** Lectures and laboratory on the applications and limitations of organic reactions,

with special reference to synthesis. Prerequisites: Chem. 121, 122. Fall and Spring. Credit 5(3-4).

**131. Qualitative Analysis.** This course is an intensive course dealing with the fundamental principles of analysis. It develops the power for the student to form decisions based upon experimental results. Preliminary experiments are introduced to illustrate chemical principles and to give practice in equation writing. The students are required to analyze unknown products, slags, and alloys. Prerequisites: Chem. 111, 112, and 113. Fall and Spring. Credit 5(2-6).

**132. Quantitative Analysis.** A course dealing with volumetric methods of analysis. Special emphasis is laid upon the physico-chemical principles upon which the success of the determination depends. Prerequisite: Chem. 131. Fall and Wniter. Credit 5(2-6).

**133. Quantitative Analysis.** A continuation of Chemistry 132, dealing with gravimetric methods of analysis. Lectures and laboratory. Prerequisite: Chem. 131. Winter. Credit 5(2-6).

**141. Physical Chemistry.** A study of the atomic, molecular and ionic theories, and the properties of substances directly related to these theories. Requirements: Physics 323, Mathematics 321, Chem. 113. Fall. Credit 5(5-0).

**142. Physical Chemistry.** A study of the rate and equilibrium of chemical changes from mass-action and phase viewpoints. Requirement: Chemistry 141. Winter. Credit 5(5-0).

**146. Chemical Engineering.** A study of the thermal properties of matter and the energy relationships underlying mechanical and chemical processes, including a thorough discussion of the first law of thermodynamics as applied to both batch and flow processes, and such operations as combustion, thermal control of chemical reactions, and the like. Prerequisites: Chem. 141, Mathematics 321. Credit 4(4-0).

#### Graduate Course

**601. Problems in Organic Chmistry.** The important principles of organic chemistry are emphasized from a more mature point of view. Credit 5(3-4).

# DEPARTMENT OF EDUCATION

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## COURSES

### For Undergraduates

**211. Orientation.** This course is designed to give the student an insight into college life. The course consists of lectures and discussions relating to the problems of the college student. Suggestions are given as to methods of studying, note taking, extracurricular activities, use of the library, choosing courses of study to meet requirements of various vocations, etc. Any quarter. Credit 1(1-0).

**212. Occupations.** This course aims to help the individual student find his place in the world of occupations. An effort is made to broaden the student's outlook before he becomes a part of the occupational world. A study is made of the various industries and occupations; Government service, commercial occupations, earth occupations—agriculture, mining, etc.; transportation; banking, etc. The professions—law, medicine, teaching, social service, engineering, etc. Personal service and professions for entertainment, dress-making, tailoring, musicians, artists, actors, etc. Special attention is given to the personal qualifications and opportunities for the various occupations. Any quarter. Credit 1(-0).

**213. Personal Hygiene.** This course attempts to acquaint the student with fundamental knowledge concerning the care of the body. It also aims to have the student appreciate the importance of a healthy, well-functioning body. Any quarter. Credit 1(1-0).

**221. General Psychology.** An introduction to psychological terms, principles and facts. What psychology is and does. A study of reactions and tendencies to reaction; native and acquired traits, instincts, emotions, feelings, sensations. This course will not be counted as an elective to meet the specific requirements in education for a high school teacher's certificate. Fall. Credit 5(5-0).

**224. Educational Philosophy.** The fundamental concepts and ultimate objectives of education, current educational doctrines and controversies, changes in educational procedures, historical background and philosophical implications.

**231. Educational Psychology.** This course is devoted to a study of native and acquired traits and capacities of children; the learning process; individual differences; general laws and conditions of learning; and the results of investigations relative to the progress of learning in the school subjects. Prerequisite: Education 221 or Junior standing. Spring and Summer. Credit 5(5-0).

**233. Introduction to Guidance.** This course emphasizes the history and principles underlying guidance and surveys the problems and areas in which guidance is needed. Methods of counseling and techniques of gathering pertinent personnel data will be presented. Credit 5(5-0).

**236. Tests and Measurements.** Principles of testing; aims and objectives; achievement tests; mentality tests; aptitude tests; teachers' marks; methods of content examination; use of tests. Spring. Credit 5(5-0).

**237. Principles of Secondary Education.** The scope and function of the high school and its relation to the elementary school and college; the high school pupil; high school curriculum; high school teacher; guidance; teaching loads; professional ethics; extracurricular activities. Required of all who plan to teach. Fall and Summer. Credit 3(3-0).

**238. Problems In Secondary Education.** This course deals with problems which arise in secondary school administration and teaching. Problems and their solution are discussed in the light of the principles taken up in Education 237.

**243. The Teaching of English.** This course is a study of the special problems which confront the teacher of English in the high school. Open only to seniors. Required of those planning to teach English. Prerequisites: Thirty hours of English, Education 231 and 237 or 238. Fall and Winter. Credit 5(5-0).

**245. The Teaching of Social Sciences.** A course dealing with a study of the methods of teaching history in high schools. Special attention will be given to such problems as the organization of material, classroom equipment, etc. Open to seniors. Required of those planning to teach the subject. Prerequisites: Thirty hours of Social Studies; Ed. 231 and 237 or 238. Fall and Winter. Credit 5(5-0).

**246. The Teaching of Mathematics.** A course which deals with the evaluation of subject matter, modes, methods, and objectives in the teaching of mathematics in the junior and senior high school. Required of those planning to teach the subject. Prerequisite: 20 hours of Mathematics; Ed. 231, 237 or 238. Fall and Winter. Credit 5(5-0).

**247. The Teaching of Modern Languages.** This course is devoted to a study of the problems and difficulties experienced in teaching Foreign Languages. Special attention is given to the matter of classroom aids, equipment, etc. Required of those students planning to teach Language. Prerequisite: 30 hours of French; Ed. 231 and 237 or 238. Fall and Winter. Credit 5(5-0).

**248. The Teaching of Art.** A study of the aims and objectives, methods and techniques of art teaching in the modern school. Special attention is given to planning courses of study, presentation, selection of equipment, reference and illustrative material and correlation—considerable emphasis placed on blackboard drawings. Required of those wishing to qualify as art teachers. Prerequisite: 45 hours of Art; Ed. 231, 237 and 238. Fall and Winter. Credit 5(5-0).

**249. The Teaching of Science.** A study of the present methods of teaching such subjects as biology, physics, chemistry, and general science in the high school. Special attention is given to laboratory equipment used in the teaching of these subjects. Required of all those planning to teach in this field. Prerequisites: 3 hours of science; E0d. 231 and 237 or 238. Fall and Winter. Credit 5(5-0).

**250. The Teaching of Commercial Subjects.** Organization, preparation and care of materials, followed by an analysis of the methods of procedure, standards and objectives of the teacher of commercial subjects in high school. Students may be admitted to this course only upon the recommendation of the head of the Department of Commercial Education. Fall and Winter. Credit 5(5-0).

**251. Observation and Practice Teaching.** All students planning to teach are required to spend at least thirty hours in practice teaching in the type of school in which they plan to work. Students should schedule this course only after consultation with the Director of Practice Teaching. In no instance will a student be permitted to carry more than thirteen hours (including Education 251) during the quarter this course is scheduled. Prerequisite: Methods of Teaching. Fall, Winter, Spring. Credit 5(1-8).

**152A. Methods of Teaching Home Economics.** This course deals with the aims of education, and the place of home economics in general education, development of a philosophy, methods of teaching, means of evaluating learnings. Consideration will be given to aid in personality development of the teacher, and other problems of the home economics teacher. Opportunity will be provided for observation in various schools. Prerequisites: Education 231 and 237. Credit 2½(3-0).

**152B. Organization of Home Economics Courses in Schools.** The course considers the organization of general home economics from elementary through high school. Emphasis is placed upon the State Vocational Home Economics program, its organization, administration, policies and methods. Prerequisite: Education 152A. Credit 2½ (3-0).

**153. Observation and Directed Teaching.** The course is planned to guide students in selecting, evaluating, and using materials and methods in actual teaching situations. Problems growing out of student teaching experiences will be analyzed and used as basis for individual and group con-

ference. Participation in home projects, adult and Home Economics Club program will be encouraged. 30 hours of observation, 60 hours teaching required. Prerequisites: Education 152A-252B. Credit hours 5.

See also: (1) Agricultural Education, p. 72.  
 (2) Vocational Agriculture, p. 72.  
 (3) Industrial Education, p. 116.  
 (4) Vocational Education, p. 122.

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## DEPARTMENT OF ELECTRICAL ENGINEERING

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The curriculum of the Department of Electrical Engineering is designed to prepare students for the opportunities in the electrical field which exist and are available to its graduates. A large number of graduates have obtained work in radio fields and for that reason the Department has several courses leading to work of this nature.

This curriculum includes courses closely akin to physics and mathematics and by choosing the required courses in education a student may graduate with a degree in electrical engineering and a certificate to teach mathematics or general science. Sufficient hours are included under "electives" to allow time for the professional education courses required for this purpose.

### CURRICULUM

#### Freshman Year

See first year's curricula of Mechanic Arts

#### Sophomore Year

|                                        | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|----------------------------------------|-------------|---------------|---------------|
| Physics 321, 322, 323 .....            | 5(3-4)      | 5(3-4)        | 5(3-4)        |
| Mathematics 321, 322, 323 .....        | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| Military Science 221, 1 222, 223 ..... | 2(3-2)      | 2(3-2)        | 2(3-2)        |
| Machine Shop Practice 328, 329 .....   | 2(0-4)      | 2(0-4)        | .....         |
| Mechanical Drawing 323, 324, 325 ..... | 3(0-6)      | 3(0-6)        | 3(0-6)        |
| Mechanism, M. E. 321 .....             | .....       | .....         | 3(3-0)        |
| <b>Elective .....</b>                  | <b>3</b>    | .....         | .....         |

|                                            | <b>Junior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|--------------------------------------------|--------------------|-------------|---------------|---------------|
| Mechanics, M. E. 331, 332, 333 .....       | 5(5-0)             | 5(5-0)      | 5(5-0)        |               |
| Electrical Engineering 331, 332, 333 ..... | 5(3-4)             | 5(3-4)      | 5(3-4)        |               |
| Electrical Engineering 334, 335 .....      | 5(3-4)             | 5(3-4)      | .....         |               |
| Heat Power Engineering, M. E. 336 .....    | .....              | 5(5-0)      | .....         |               |
| Economics, Ec. 231 .....                   | 5(5-0)             | .....       | .....         |               |
| Contract Specifications, M. E. 327 .....   | .....              | .....       | 3(3-0)        |               |
| Electives .....                            |                    |             |               | 3             |

|                                           | <b>Senior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-------------------------------------------|--------------------|-------------|---------------|---------------|
| Electrical Engineering 346, 347, 348..... | 5(3-4)             | 5(3-4)      | 5(3-4)        |               |
| Electrical Engineering 350 .....          | 3(3-0)             | .....       | .....         |               |
| Electrical Engineering 354 .....          | .....              | 5(3-4)      | .....         |               |
| Electrical Engineering 355, 356 .....     | 3(3-0)             | 3(3-0)      | .....         |               |
| Hydraulics, M. E. 337 .....               | 3(3-0)             | .....       | .....         |               |
| Electives .....                           | 3                  | 5           | 10            |               |

#### Suggested Electives

Electrical Engineering 353, 357, 358, 351.  
 Differential Equations, Math. 331.  
 Education (Professional Certificate Requirements).  
 Estimating, C. I. 344.

### COURSES IN ELECTRICAL ENGINEERING

**331. Direct Current Machinery.** The laws of magnetism, induction and electrical circuits are briefly covered. Then follows a careful study of machines with regard to their construction, performance characteristics and practical operation. Numerous problems are given throughout the course to aid in gaining a complete understanding of the various laws. Credit 5(3-4).

**332. Direct Current Machinery.** A continuation of the preceding course in which the subject of D. C. machinery is further developed. Prerequisite: E. E. 331. Credit 5(3-4).

**333. Alternating Current Circuits.** This course is designed to familiarize the student with the laws of alternating current circuits before taking up the study of alternating current machinery. The course begins with a study of sine waves, effect of inductance and capacitance and resonance phenomena. The vector method, using complex notation, is used extensively in solving problems of series and parallel circuits and for alternating current networks. The graphical method of solution is also presented and extended to

cover locus diagrams. The various polyphase systems are studied and the effect of unbalanced loads is noted. Prerequisite: E. E. 332. Credit 5(3-4).

**334. Electrical Measurement.** A careful study is made of the theory and operation of instruments of precision used in electrical testing laboratories for measurement of electrical quantities. Instruction in the theory and use of laboratory and commercial bridges, and potentiometers of general and special types. Prerequisite: Physics 323. Credit 5(3-4).

**335. Electrical Measurement.** A continuation of the preceding course with additional work in bridges. A study is made of measurement of magnetism inductance and capacitance, mutual inductance. Prerequisite: E. E. 334. Credit 5(3-4).

**346. Communications Engineering.** This is a study of network theorems, transmission lines, reflection, filters and coupled circuits. Simple telephone circuits, and experiments are a parts of the course. Prerequisite: E. E. 333. Credit 5(3-4).

**347. Communication Engineering.** This is a continuation of 346. It includes a study of oscillators, oudro and radio frequency amplifiers and detectors. Prerequisite: 346. Credit 5(3-4).

**348. Communication Engineering.** This is a continuation of 347. A study is made of modulated radio frequency amplifiers, frequency response and power outputs of oudio amplifiers, mathematical analysis of oscillators, modulators, detectors and amplifiers. Prerequisite: 347. Credit 5(3-4).

**350. Industrial Motor Control.** The preliminary work in this course consists of a more complete study of the various types of motors than was possible in the regular courses in electrical machinery. The remainder of the course is a study of the principles of the various types of manual and automatic control, the details of control apparatus and wiring diagrams. Prerequisite: E. E. 333. Credit 5(3-4).

**351. Power Transmission.** A study of power distribution, wiring for lighting and substation feeder systems. Credit 3(3-0).

**352. Storage Batteries.** A study of the operating characteristics and engineering applications of secondary cells. Credit 3(3-0).

**353. Electric Railways.** Operating characteristics and principles of electric railways. Credit 3(3-0).

**354. Radio Circuits.** A study of receiving and transmitting and receiving apparatus, and their practical applications. Prerequisite: E. E. 348. Credit 5(3-4).

**355. Alternating Current Apparatus.** This is a study of alternating equipment. Prerequisite: E. E. 333. Credit 3(3-0).

**356. Alternating Current Apparatus.** This is a continuation of 335. It includes a mathematical study of wave analysis unbalanced polyphase circuits and power problems. Prerequisite: E. E. 355. Credit 3(3-0).

**357. Radio Servicing.** This is a study of modern radio servicing methods of all types of radio receivers, public address equipment, sound motion picture machines, interoffice communication systems and various combinations of these. It includes consideration of sales and business practices especially as they relate to graduates of this course. Extensive laboratory experiments are a part of the course. Prerequisite: E. E. 354. Credit 5(3-4).

**358. Radio Servicing.** This is a continuation of 357. Laboratory experiments and work in commercial installation are stressed. Prerequisite: E. E. 357. Credit 5(3-4).

## **DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE**

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All freshmen are required to take a placement test in English. Those failing this test must register for the course Remedial English (Eng. 210).

A minimum of twenty quarter hours of English is required for graduation from all departments. All students of all departments must take Eng. 211, Eng. 212, and Eng. 213. Five hours of literature are required.

### **ENGLISH MAJORS AND MINORS**

(See also note at bottom of p. 46.)

English majors and minors are required to have an average of *B* in their three Freshman English courses and to pass a comprehensive examination in the field of English at the end of the Fall Quarter of their senior year. Those failing this examination will be required to register for English 245.

An English major is designed for persons interested in teaching English in the secondary school or in pursuing graduate work in the field. It is also recommended for those intending to follow law, the ministry, writing, or research as a profession.

An English minor satisfies the State's certification requirements for English as a second teaching field on the secondary level.

**Requirements for the major (in addition to the three Freshman English courses):**

English 222

English 223

English 220

English 221

English 239

English 244 or English 237

Electives from any other advanced English courses sufficient to complete the required 50 hours.

**Requirements for the minor** (in addition to the three Freshman English courses):

English 239

English 223

English 220

English 221

English majors and minors are advised to take English history (History 226).

## COURSES IN ENGLISH

### LANGUAGE AND COMPOSITION

**210. Remedial English.** Emphasis upon the elementary requirements in English usage; such as, the rudiments of grammar, sentence punctuation, reading, and spelling. Required of all incoming freshmen who fail to pass a test in English fundamentals. Any quarter. Credit 0(3-0).

**211. Grammar.** A review of the fundamental principles of grammar and the application of these principles in sentences, paragraphs, and short themes. Correct spelling is given considerable attention in this course. Any quarter. Credit 5(5-0).

**212. Compositon.** Continuation of English 211, with more emphasis upon themes and vocabulary building. Longer themes will be required, and the student is expected to show more originality and independence of judgment in his compositions. Prerequisite: Eng. 211. Winter and Spring. Credit 5(5-0).

**213. Composition and Reading.** An approach to techniques of clear and effective writing through examples of various literary types by writers whose works exemplify the finest qualities of composition. The writing of longer compositions will continue, with a view to the cultivation of an individual style on the part of the student. Prerequisite: 212. Winter and Spring. Credit 5(5-0).

**214. Writing for Students in Agriculture.** Style, principles, and practice in writing agricultural reports, newspaper ar-

ticles, and papers for public delivery. Vocabulary building, extensive reading in agricultural literature; term report on selected subject. Prerequisite: English 213. Winter. Credit 3(3-0).

**216. Writing for Students in Engineering.** Styles, principles, and practice in writing engineering reports, special articles and papers for public delivery. Vocabulary building, extensive reading in technical literature; term report on selected subject. Prerequisite: English 213. Spring. Credit 3(3-0).

**231. Journalism.** Theoretical and practical work in recognizing, gathering, and writing news. While primary attention is given to the development of journalistic technique, there is considerable drill on the fundamental principles of composition. Prerequisite: English 213. Credit 3(3-0).

**232. Creative Writing.** The study of creative expression in all types of writing. The writing of radio script, however, is emphasized. Radio scripts written by students are broadcast over Radio Station W.B.I.G. Prerequisite: Eng. 213. Spring. Credit 3(3-0).

**236. Argumentation and Debating.** A study of the principles of argumentation. The course consists of discussions, lectures, and classroom debates, all of which procedures are preliminary to public debates. Prerequisite: Eng. 213. Credit 3(3-0).

**237. History of the English Language.** A study of the origin and development of the English language through early dialects to present usage. Spring. Credit 3(3-0).

**244. Advanced Composition.** This course is designed only for students whose work in Freshman English was good or excellent; that is, *B* or *A* caliber. It consists of concentrated attention on several major types of composition. Each student is expected to produce samples of several types; for example, the essay, short story, etc. Prerequisite: Eng. 213. Fall or Spring. Credit 3(3-0).

**245. Review for English Majors and Minors.** This course is planned particularly for seniors who desire personal atten-

tion in further mastering the fundamentals of English composition and in becoming more conversant with the general field of English and American literature. Required of all Senior English Majors and Minors who fail the Comprehensive Examination. Winter. Credit 0(2-0).

### **SPEECH AND EXPRESSION**

**224. Public Speaking.** A study of the basic attributes and the fundamental processes of speech. Practice in speech organization and delivery. Any quarter. Credit 3(3-0).

**227. Dramatic Technique and Interpretation.** Training in the understanding and interpretative reading of the drama. Winter. Credit 3(3-0).

**228. Dramatic Production: Stagecraft.** The theory and practice of stage production. Lectures, demonstrations, reports, readings, and laboratory exercises in stagecraft. Spring. Credit 5(3-4).

**229. Parliamentary Procedure.** Theory and practice in the rules and customs governing organization and proceedings of deliberative bodies. Prerequisite: English 213. Winter or Spring. Credit 1(0-2).

### **LITERATURE**

**215. Negro Literature.** A survey of all important Negro writers from pre-Civil War days to the present. Readings, reports (oral and written), and one special topic. Spring. Credit 1(0-2).

**220. American Literature.** A study of literary, social and political ideals of America as reflected in outstanding writings. Prerequisite: Eng. 213. Fall or Winter. Credit 5(5-0).

**221. American Literature.** A continuation survey course in American Literature. Prerequisite: English 220 or consent of instructor. Credit 5(5-0).

**222. Development of English Literature.** Reading in English Literature from the beginnings to 1700. Study of the growth of ideas and institutions, of the types of literature,

and of the great personalities who have contributed most to the literature. Lectures. Reports. Prerequisite: Eng. 213. Fall and Spring. Credit 5(5-0).

**223. Development of English Literature.** Continuation of 222. English Literature from 1700 to the twentieth century. Lectures. Reports. Prerequisite: Eng. 213. Winter. Credit 5(5-0).

**226. Dramatic Literature.** A survey of dramatic literature. Origin of the drama; readings in the Greek, classical French, Elizabethan, and contemporary drama. A principal objective of the course is an insight into the Poetics and Rhetoric of Aristotle. Fall. Credit 5(5-0).

**234. Shakespeare.** A detailed, chronological study of twelve principal plays taken from all four of the periods of dramatic production. Lectures, reports, one long paper. Prerequisite: 20 hours of English. Fall. Credit 5(5-0).

**235. Chaucer.** A chronological study of Chaucer's principal works with special emphasis upon the Canterbury Tales. Lectures, collateral assignments, reports, one long paper. Prerequisite: 20 hours of English. Winter. Credit 3(3-0).

**238. Milton.** A detailed study of Milton's English poems with special attention given to Paradise Lost. Also a study of his important prose. Lectures, assigned reading, memory passages, and a report on a special topic. Prerequisite: 20 hours of English. Spring. Credit 3(3-0).

**239. Chaucer, Shakespeare, Milton.** A few of the more outstanding works of these writers are studied with a view to understanding their chief contributions to the language and literature of England. Some attention will be given to a background study of the Middle English, Elizabethan, and Puritan Periods. Prerequisite: English 213. Credit 5(5-0).

**241. Eighteenth Century Literature.** Readings in the poetry and prose of the century. Lectures, collateral assignments, reports, and one long paper. Prerequisite: 20 hours of English. Credit 3(3-0).

**242. The Romantic Era.** The principles and ideas of Romanticism as expressed in the works of the principal English writers of poetry and prose from 1798 to 1823. Term report. Prerequisite: 20 hours of English. Credit 3(3-0).

**243. The Victorian Era.** Readings in the works of the principal English writers of the Victorian Age. Term report. Prerequisite: 20 hours of English. Credit 3(3-0).

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## DEPARTMENT OF FINE ARTS

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### GENERAL STATEMENT

The objectives of this course are as follows:

- (a) To discover and develop the latent talent of students for artistic expression and lay a foundation for careers as creative artists.
- (b) To meet a growing demand for especially trained art teachers in our public schools and colleges.
- (c) To develop tastes and discriminations in the choice of materials used in everyday life which will find expression in more beautiful homes and gardens, schools, parks, playgrounds and other public works.
- (d) To provide a culture leading to a more worthy use of leisure time.

All students wishing to major in art must pass a special examination or submit some of their art work for appraisal. Students in other departments desiring special work in art may by arrangement with the instructor take any course listed under art.

## CURRICULUM OF FINE ARTS

### Freshman Year

#### See Curriculum First Year Mechanic Arts

**Note:** Students majoring in fine arts will not be required to take M. E. 314, 317.

### Sophomore Year

|                                          | Fall   | Winter | Spring |
|------------------------------------------|--------|--------|--------|
| English 213 and elective .....           | 5(5-0) | 5(5-0) | 5(5-0) |
| French 214, 215 .....                    | 5(5-0) | 5(5-0) | .....  |
| Modern European History 211 or 212 ..... | 5(5-0) | .....  | .....  |
| Negro History 213 .....                  | .....  | .....  | 5(5-0) |
| Freehand Drawing 311, 312, 313 .....     | 3(0-6) | 3(0-6) | 3(0-6) |
| Art Appreciation 314, 315, 316 .....     | 1(0-2) | 1(0-2) | 1(0-2) |
| Military Science 221, 222, 223 .....     | 2(3-2) | 2(3-2) | 2(3-2) |

### Junior Year

|                                            | Fall   | Winter | Spring |
|--------------------------------------------|--------|--------|--------|
| Educational Psychology 231 .....           | .....  | .....  | 5(5-0) |
| Problems in Secondary Education 237, 238.. | 3(3-0) | 3(3-0) | .....  |
| American History 221 or 222 .....          | 5(5-0) | .....  | .....  |
| Mediaeval History 232 .....                | .....  | 5(5-0) | .....  |
| Commercial Art 321, 322, 323 .....         | 3(0-6) | 3(0-6) | 3(0-6) |
| Portrait, Art 334, 335, 336 .....          | 2(0-4) | 2(0-4) | 2(0-4) |
| Art Appreciation 327, 328, 329 .....       | 1(0-2) | 1(0-2) | 2(0-2) |
| Electives .....                            | 3      | 3      | 6      |

### Senior Year

|                                       | Fall   | Winter | Spring |
|---------------------------------------|--------|--------|--------|
| Education 248, 251 .....              | 5(5-0) | 5(1-8) | .....  |
| History 231 .....                     | 5(5-0) | .....  | .....  |
| Figure Drawing, Art 341, 342 .....    | 3(0-6) | 3(0-6) | .....  |
| Oil Painting, Art 347, 348, 349 ..... | 3(0-6) | 3(0-6) | 3(0-6) |
| Electives .....                       | 6      | 6      | 9      |

### Suggested Electives

History of Agriculture 324, 325, 326.

Education 236, 331, 341, 221.

## COURSES IN ART

**311. Freehand Drawing.** This course is a study of the fundamental principles of drawing. As a useful mode of visual expression selected problems involving basic considerations of line, mass and color are presented for analysis and laboratory practice. Credit 3(0-6).

**312. Lettering and Poster Design.** This course is a comprehensive study of the art of lettering with drawlet pens, the principles of the layout, poster construction and general advertising. Credit 3(0-6).

**313. Water Color Painting.** This course aims to give a working knowledge of color both from the standpoint of its use and enjoyment—various theories of color are analyzed along with drills on the techniques of water color painting. Credit 3(0-6). Prerequisite: 311.

**314. Art Appreciation.** This is an introductory course to the study of fine arts. Basic qualities of various forms of artistic expression are explained. Emphasis is placed on the application of art principles in everyday life. Credit 1(0-2).

**315. Art Appreciation.** This course is a study of the art historic periods. Representative examples of the architecture and sculpture of ancient Egypt, Greece and Rome are selected for analysis, interpretations and comparisons. Credit 1(0-2).

**316. Art Appreciation.** This course traces the development of the art of painting from the Italian Primitives through the English School by means of analysis and comparisons of works of representative painters. Credit 1(0-2).

**321. Commercial Art.** This is an advanced course in Free-hand Drawing—with considerable emphasis on the techniques of mediums used in commercial art—laboratory drills in sketching and rendering in pen and ink and wash. Prerequisite: 313. Credit 3(0-6).

**322. Commercial Art.** This is a continuation of 321. In this course water color and show-card color are used with continued drills in laboratory techniques suitable for reproduction—cartooning. Prerequisite: 321. Credit 3(0-6).

**323. Commercial Art.** This course aims at guiding the student towards such specific branches of commercial art as book jacket designs—layouts for newspapers, designs for calendars, greeting cards, magazine illustration posters, etc. Prerequisite: 322. Credit 3(0-6).

**324. History of Architecture.** This first course is a study of the beginning of Ancient and Classical Architecture. Credit 5(5-0).

**325. History of Architecture.** This course is a continuation of the first course including Middle Ages and Renaissance. Prerequisite: Art 324. Credit 5(5-0).

**326. History of Architecture.** A study of modern architecture is covered in this course with particular emphasis placed on modern housing. Prerequisite: Art 325. Credit 5(5-0).

**327. Art Appreciation.** This course is a study of the arts in America. Beginning with a study of the crafts and continuing through American Architecture, representative personalities and their works are studied, analyzed and interpreted. Credit 1(0-2).

**328. Art Appreciation.** This course traces the development of the art of sculpture in America from the revolutionary period to the present era. Credit 1(0-2).

**329. Art Appreciation.** This course traces the development of the art of painting in America from the revolutionary period to the present era. Emphasis is placed on analysis and interpretation of representative works. Credit 1(0-2).

**331. Composition.** This course is a study of the basic principles of pictorial composition or designing the picture with definite consideration of the requirements of commercial art, drills in abstract arrangements or dark and light. Credit 2(0-4).

**332. Composition.** This course is a continuation of 331 with emphasis on the study of accessories, figure arrangement and expression. Prerequisite: 331. Credit 2(0-4).

**333. Composition.** This course is a continuation of 332 with the introduction of a wide range of assigned topics or themes to be illustrated with original pictures. Emphasis is placed on originality, design, and expression. Credit 2(0-4).

**334. Portrait.** This course consists of drawing from the antique or cast drawing as a foundation for drawing from life. Basic considerations in modeling in full scale of values are studied and practiced: medium, charcoal. Credit 2(0-4).

**335. Portrait.** This course is a study of the techniques in the reproduction of photographs in charcoal and pastel. Emphasis on laboratory techniques. Prerequisite: 334. Credit 2(0-4).

**336. Portrait.** This course is a study of the technique of life portraiture. Studies are made from living models with emphasis on composition and expression. Prerequisite: 335. Credit 2(0-4).

**341. Figure Drawing.** This course is a study of the human figure from life. A study of the full length figure with emphasis on proportion, action and modeling in full values. Credit 3(0-6).

**342. Figure Drawing.** This course is a continuation of 341 with emphasis on laboratory techniques in drawing and painting from life. Credit 3(0-6).

**347. Oil Painting.** This course is an advanced study of oil painting. Emphasis is placed on the technique of oil painting, still life, landscapes and portrait.

**348. Oil Painting.** This course is a continuation of 347 with emphasis on the development of original themes. Prerequisite 347. Credit 3(0-6).

**349. Oil Painting.** This course is a continuation of 348 with emphasis on originality of subjects and treatment. Credit 3(0-6).

(See also Art 112, Home Economics Department, p. 115).

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## DEPARTMENT OF FOREIGN LANGUAGES

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The department aims to develop reasonable facility in the reading, speaking, and writing of the principal modern foreign languages. It endeavors, furthermore, to lead students to an intelligent appreciation of outstanding literary masterpieces, to develop a better knowledge of continental contributions to modern culture, and to create a spirit of understanding that will result in proper attitudes toward different national groups.

The following courses are suggested as majors and minors, and are recommended for those interested in graduate study, research, government service, teaching or commerce.

### MAJOR IN FOREIGN LANGUAGES

#### Junior Year

|                             | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------|-------------|---------------|---------------|
| French 214, 215, 216 .....  | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| French 217, 218, 219 .....  | 3(3-0)      | 5(5-0)        | 5(5-0)        |
| Spanish 211, 212, 213 ..... | 5(5-0)      | 5(5-0)        | 5(5-0)        |

#### Senior Year

|                             | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------|-------------|---------------|---------------|
| French 221, 222, 223 .....  | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| French 243, 245, 247 .....  | 5(5-0)      | 5(5-0)        | 3(3-0)        |
| Spanish 214, 215, 216 ..... | 5(5-0)      | 5(5-0)        | 5(5-0)        |

### COURSES IN FRENCH

**211. Elementary French.** Special attention is given to gaining a complete knowledge of the essentials of grammar and pronunciation, to the acquisition of a vocabulary, and to elementary composition. Required of students who do not pass the French Placement Test. Fall. Credit 5(5-0).

**212. Elementary French.** This course continues the work in grammar and pronunciation. Conversation and dictation are encouraged. Winter. Credit 5(5-0).

**213. Elementary French.** Practice in oral and written composition is continued. The early acquisition of a taste for advanced French is stimulated through the reading, translation, and interpretation of easy modern French prose. Spring. Credit 5(5-0).

**214. Intermediate French.** This course is open to students who pass the French Placement Test based on two units of high school French or college French 211, 212, 213. A brief review of grammar is followed by practice in pronunciation. Fall. Credit 5(5-0).

**215. Intermediate French.** The reading of French plays is encouraged, and the ability to write and converse in French is further developed. Winter. Credit 5(5-0).

**216. Phonetics.** This course is intended for students majoring and minoring in French. It is also recommended for those

who wish to improve their pronunciation of the language. Spring. Credit 5(5-0).

**217. French Literature of the Middle Ages and the Renaissance.** A general introduction to the more advanced study of French literature. Its purpose is to give a clear idea of the great periods and the main tendencies in the history of French thought and letters from the Middle Ages to the Seventeenth Century. Fall. Credit 3(3-0).

**\*218. Advanced French Composition.** An advanced course in oral and written self-expression in French. Special attention is given to vocabulary building, free composition, and conversation, prepared and improvised, covering the many phases of everyday activity. Spring. Credit 5(5-0).

**\*219. Advanced French Conversation.** A course for students having some experience in written French. It aims to improve oral and aural conversation. Small groups will be arranged for practice in French conversation. Spring. Credit 5(5-0).

**221. French Literature of the Seventeenth Century.** This course presents Classicism through the masterpieces of Corneille, Racine, Molière and other authors of the "Golden Period" in French letters. Conducted in French. Fall. Credit 5(5-0).

**222. French Literature of the Eighteenth Century.** The object of this course is to study in particular the life and works of Montesquieu, Voltaire, Rousseau, and the Encyclopedists. Conducted in French. Winter. Credit 5(5-0).

**\*223. French Literature of the Nineteenth Century.** The object of this course is to study the great literary currents of the nineteenth century, romanticism and realism. Spring. Credit 5(5-0).

**243. Modern and Contemporary French Literature.** This course deals with the chief writers and literary currents of the time. Lectures and outside readings. Credit 3(3-0).

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\* Offered in alternate years. Not offered in 1945-46.

**245. French Civilization.** A general survey of the history of France, with emphasis on its social, political and economic developments designed to give the student an understanding of present conditions and events. A detailed study is made of such French institutions as art, music and education. This course is also offered in conjunction with reports on collateral readings. Credit 5(5-0).

**246. French Seminar. Thesis problem.** Open only to seniors majoring in Foreign language. Credit 3(3-0).

**247. French for Prospective Teachers.** This course is elective for seniors with the consent of the instructor. A brief review of the principles of grammar is followed by an intensive drill in phonetics. Aims, problems, methods, and texts are discussed. Spring. Credit 3(3-0).

#### COURSES IN SPANISH

**211. Elementary Spanish.** The primary object of this course is to secure the understanding of easy Spanish, written and spoken. Much attention is given to the essentials of grammar and pronunciation. Fall. Credit 5(5-0).

**211. Elementary Spanish.** This course continues the work in grammar and pronunciation. Prose reading is encouraged by exercises in vocabulary building. Winter. Credit 5(5-0).

**213. Elementary Spanish.** Attention is given to advanced elementary grammar. Prose reading continues and a taste for advanced Spanish is stimulated through the reading of poetry.

**214. Intermediate Spanish.** This course is open to students who have completed two units of high school Spanish or college Spanish 211, 212, 213. Thorough review of Spanish syntax with emphasis on its essential difficulties. Fall. Credit 5(5-0).

**215. Intermediate Spanish.** Practice in writing idiomatic Spanish in translations and free compositions. Readings from modern authors. Winter. Credit 5(5-0).

**216. Survey of Spanish Literature.** A survey of the most important movement, writers, and works from the Middle Ages up to the present time. Spring. Credit 5(5-0).

## DEPARTMENT OF HOME ECONOMICS

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The program as outlined below is arranged to meet the needs of the following groups of students: those who wish to teach, those who wish to enter graduate courses leading to technical or professional work, and those who wish to apply their knowledge to various problems of home life, or in fields of industry and social service in which an understanding of home economics subjects is essential to intelligent action.

Students who specifically qualify in personality, desire and ability, for work with The Cooperative Agriculture Extension Service, will be guided in selecting courses necessary for proper preparation for that work.

The training given is as varied as it is broad. It includes a knowledge of the laws of health; an understanding of the sanitary requirements of the home; the study of values, both absolute and relative, of the various articles used in the home; the wise expenditure of money, time, and energy; the scientific principles underlying the selection and preparation of food; the right care of children; and the ability to secure efficient service from others.

A four-year college course in home economics will lead to a B.S. degree in Home Economics.

### COURSES IN HOME ECONOMICS LEADING TO THE DEGREE OF B.S.

| Freshman Year                                | Fall   | Winter | Spring |
|----------------------------------------------|--------|--------|--------|
| English Composition, Eng. 211, 212, 213..... | 5(5-0) | 5(5-0) | 5(5-0) |
| General Chemistry, Chem. 114, 115, 116.....  | 5(3-4) | 5(3-4) | 5(3-4) |
| Negro History .....                          | .....  | .....  | 5(5-0) |
| Clothing 123 .....                           | .....  | .....  | 3(2-2) |
| Food Principles, Foods 121 .....             | .....  | .....  | 4(2-3) |
| Elementary Clothing, Clothing 111 .....      | 3(1-4) | .....  | .....  |
| General Psychology, Ed. 221 .....            | .....  | 5(5-0) | .....  |
| Art Appreciation 314, 315, 316 .....         | 1(0-2) | 1(0-2) | 1(0-2) |
| Physical Education .....                     | 1(0-2) | 1(0-2) | 1(0-2) |
| Home Economics Orientation 111 .....         | 3(3-0) | .....  | .....  |
| Art Structure, Art 311, 312 .....            | 3(0-6) | 3(0-6) | .....  |

**Sophomore Year**

|                                                              | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|--------------------------------------------------------------|-------------|---------------|---------------|
| English .....                                                | .....       | 5(5-0)        | .....         |
| Education 231 .....                                          | .....       | .....         | 5(5-0)        |
| Physiology, Zool. 211 .....                                  | .....       | 5(3-4)        | .....         |
| Meal Planning and Table Service,<br>Foods 123 .....          | .....       | .....         | 4(2-4)        |
| Design and Construction, Cloth. 112.....                     | .....       | 3(1-4)        | .....         |
| Consumer Buymanship and<br>Family Economics, H. A. 123 ..... | .....       | 3(3-0)        | .....         |
| Sociology or Economics .....                                 | 4(5-0)      | .....         | .....         |
| Bacteriology, Bact. 121 .....                                | .....       | .....         | 5(4-3)        |
| Art Appreciation, Art 327, 328, 329.....                     | 1(0-2)      | 1(0-2)        | 1(0-2)        |
| Physical Education .....                                     | 1(0-2)      | 1(0-2)        | 1(0-2)        |

**Junior Year**

|                                                              | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|--------------------------------------------------------------|-------------|---------------|---------------|
| Physics 311 .....                                            | .....       | 5(4-2)        | .....         |
| Education 237 .....                                          | .....       | .....         | 3(3-0)        |
| Housing, H. A. 132 .....                                     | .....       | 3(2-0)        | .....         |
| Principles of Nutrition, Foods 132 .....                     | .....       | 4(2-4)        | .....         |
| Child Development, H. A. 131 .....                           | 4(3-2)      | .....         | .....         |
| U. S. History, Hist. 221 or 222 .....                        | .....       | 5(5-0)        | .....         |
| Family Relationships, H. A. 132 or<br>Family, Soc. 241 ..... | .....       | 3(3-0)        | .....         |
| Nursery School Education H. A. 142 .....                     | .....       | .....         | 4(2-4)        |
| Electives .....                                              | .....       | .....         | .....         |

**Senior Year**

|                                                                      | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|----------------------------------------------------------------------|-------------|---------------|---------------|
| Clothing Construction, Clo. 142 .....                                | .....       | 3(1-4)        | .....         |
| Methods of Teaching Home Economics,<br>Ed. 152A .....                | 3(3-0)      | .....         | .....         |
| Organization of Home Economics Courses<br>in Schools, Ed. 152B ..... | 3(3-0)      | .....         | .....         |
| Supervised Practice Teaching, Ed. 153 .....                          | .....       | 5 hrs. cr.    | .....         |
| Government, Pol. Sc. 231 or 232 .....                                | 5(5-0)      | .....         | .....         |
| Home Management Residence, H. A. 142.....                            | .....       | 3(0-8)        | 3(0-8)        |
| Family Health, H. A. 143 .....                                       | .....       | .....         | 2(1-2)        |
| Electives .....                                                      | .....       | .....         | .....         |

**Required Courses**

**H. E. 111. Orientation Course.** This course is concerned with aiding in the solution of the immediate problems of personal and group living as the freshman girls find them at college. Required of all freshman girls. Credit 3(3-0).

**FOODS AND NUTRITION**

**Foods 121. Food Principles.** Food selection based on personal needs, techniques of food preparation, preservation and care in the home. Prerequisite: General Chemistry. Credit 4(2-4).

**Foods 123. Meal Planning and Table Service.** Planning and serving of adequate attractive low cost meals, and some emphasis on formal meals. Consumer buying problems will be included. Prerequisite: Foods 121. Credit 4(2-4).

**Foods 141. Principles of Nutrition as It Relates to Health.** Calculating and planning diets for various family members. Prerequisites: Foods 123, Organic Chemistry, Physiology. Credit 4(2-4).

### CLOTHING

**Clothing 111. Elementary Clothing.** This course deals with the fundamental processes of clothing construction, a study of the use of the Commercial pattern and problems in wardrobe planning. Credit 3(1-4).

**Clothing 123. Textiles.** A study of textile fabrics, their source, production, characteristics and identification tests. The social, economic, and hygienic aspects of and the care of clothing and household textiles. Credit 3(2-2).

**Clothing 112. Design and Clothing Construction.** The study of art in relation to clothing construction and problems in repair and remodeling. Credit 3(1-4).

**Clothing 143. Clothing Construction.** An advanced course in clothing construction with emphasis on the economics and selection of clothing for the family. Credit 3(1-4).

### HOME IMPROVEMENT UNITS

**H. I. 142. Home Improvement Units.**

Unit I. Floriculture.

Unit II. Home Gardening.

Unit III. Poultry.

Unit IV. Applied Electricity in the Home.

Unit V. General Woodwork for the Home.

The course is planned to give students fundamental principles and experiences in the above units.

Educational programs for training in household employment are, for the most part, short, intensive courses designed

to give training in those phases of work which employees are most frequently called upon to do.

Each unit in the courses listed above may be taken separately, and may be completed in approximately two weeks.

Credit 1(0-5) each unit.

## HOME ADMINISTRATION

### Home Management

#### **H. A. 123. Consumer Buymanship and Family Economics.**

This course deals with developing attitudes and habits in consumer-buying and management of family resources. Credit. 3(3-0).

#### **H. A. 112. Housing.** Selection of and equipping the house, with emphasis on family needs, income, and artistic arrangement. Credit 3(3-0).

#### **H. A. 134. Residence.** Experience in applying basic principles in Home Economics to the management of the home and the development of proper attitudes essential to family and group living. Credit 3(3-0).

### Family

#### **H. A. 124. Family Relationships.** A course designed to develop an objective point of view of home life in order to give better appreciation and understanding of problems of family living, and the relation of the family to the community. Credit 3(3-0). Sociology 241 may be substituted.

#### **H. A. 142-A. Child Development.** Study of the physical, mental, and social growth of the child up to five years. Observation and care of children in nursery school is required. Prerequisites: Education 221-231. Credit 4(3-2).

#### **H. A. 143. Family Health.** A study of the nursery school as an educational institution with special emphasis on administration and current practices. Prerequisite: Foods 113. Credit 2(1-2).

**ELECTIVES IN HOME ECONOMICS**

**Art 112. Costume Designing.** A study of the principles as they apply to dress, consideration of individual requirements, and a brief survey of historic costume. Winter. Credit 3(1-4).

**Foods 142. Special Problems in Foods.** Problems in working with such classes of foods as might be of specific interest to the individual student. Emphasis on developing skill in production in the line chosen. Prerequisites: All required foods courses. Credit 4(2-4).

**Foods 143. Institution Operation.** Included will be quantity cookery and sufficient institution management to enable operation of a small establishment. Prerequisites: All required foods courses. Credit 5(2-6).

**Foods 114. Nutrition for Infants and Young Children.** A study of the nutritional needs and planning and preparing of meals for this specific age level. Credit 3(1-4).

**Clothing 114. Construction.** A vocational course designed to teach fundamental skills in sewing and to solve special problems of clothing. Credit 3(1-4).

**Clothing 115. Construction.** A vocational course designed for the individual needs in construction, selection and renovation. Prerequisite: Clothing 114. Credit 3(1-4) or 6(2-8).

**Clothing 121. Home Crafts.** The course provides practical experience in upholstering, making slip covers, draperies. Credit 3(1-4).

**Clothing 123. Home Crafts.** The course aims to develop appreciation for and some ability to create attractive homework for the home, such as batiking, blockprinting, stenciling. Credit 3(1-4).

**H. A. 111. Practical Nursing of Young Children.** Child care and training with emphasis on the nature of the young child and its needs. Experience with children in the laboratory period in nursery school is required. Credit 3(3-3).

**H. A. 142-B. Nursery School Education.** Further study of the mental and social growth of the young child with emphasis on observational reports and child guidance. A laboratory period in nursery school is required. Prerequisites: Education 221, Education 231, H. A. 142. Credit 4(2-4).

## DEPARTMENT OF INDUSTRIAL EDUCATION

### TEACHER-TRAINING FOR INDUSTRIAL EDUCATION

The public schools of North Carolina, like the public schools of many states, are in constant need of securing qualified teachers of industrial arts. To meet the needs, A. and T. College offers training in these fields of concentration. The prospective trade teacher or teacher of industrial arts receives general college training in addition to specific training in the manipulative skills of a trade. In addition, he is given instruction in shop organization, shop management, and in the essential professional courses for teachers.

The fields of concentration in teacher-training for industrial education are automobile mechanics, cabinet making and upholstering, carpentry, masonry, mechanical drawing, plumbing and steamfitting, shoe repairing, and tailoring.

### CURRICULUM FOR INDUSTRIAL ARTS

#### Freshman Year

(See first year's Curriculum of Mechanic Arts)

#### Sophomore Year

|                                              | Fall   | Winter  | Spring  |
|----------------------------------------------|--------|---------|---------|
| *Calculus, Math. 321, 322, 323 .....         | 5(5-0) | 5(5-0)  | 5(5-0)  |
| Physics 321, 322, 323 .....                  | 5(5-0) | 5(5-0)  | 5(5-0)  |
| Advanced Woodwork, I. A. 321, 322, 323....   | 3(0-6) | 5(0-10) | 5(0-10) |
| Vocational Drawing, I. A. 331, 332, 333..... | 3(0-6) | 3(0-6)  | 3(0-6)  |
| Military Science, M. S. 221, 222, 223.....   | 2(3-2) | 2(3-2)  | 2(3-2)  |
| Materials of Construction, I. A. 324 .....   | 3(3-0) | .....   | .....   |

#### Junior Year

|                                                                     | Fall   | Winter | Spring |
|---------------------------------------------------------------------|--------|--------|--------|
| Wood Turning, Upholstering, Finishing,<br>I. A. 338, 339, 340 ..... | 3(0-6) | 3(0-6) | 3(0-6) |
| Freehand Drawing, Art 311, 312, 313 .....                           | 3(0-6) | 3(0-6) | 3(0-6) |
| Vocational Education( Trade Analysis,<br>Ed. 331, 332 .....         | .....  | 3(3-0) | 3(3-0) |

\* Students who do not desire a mathematics minor may substitute other approved courses.

|                                                                               |             |               |               |
|-------------------------------------------------------------------------------|-------------|---------------|---------------|
| Principles of Economics, Econ. 231 .....                                      | 5(5-0)      | .....         | .....         |
| Educational Psychology, Ed. 231 .....                                         | .....       | .....         | 5(5-0)        |
| Public Speaking, Eng. 324 .....                                               | .....       | 3(3-0)        | .....         |
| Principles of Secondary Education, Ed. 237..                                  | 3(3-0)      | .....         | .....         |
| *Electives .....                                                              | 3           | 5             | 3             |
|                                                                               | 17          | 17            | 17            |
| <b>Senior Year</b>                                                            | <b>Fall</b> | <b>Winter</b> | <b>Spring</b> |
| Machine Shop, Auto Mechanics, Electricity,<br>M. E. 328, I. A. 325, 326 ..... | 2(0-4)      | 3(0-6)        | 2(0-4)        |
| Principles of Sociology, Soc. 231 .....                                       | 4(6-0)      | .....         | .....         |
| Materials, Equipment and Shop<br>Management, I. A. 347 .....                  | .....       | 3(3-0)        | .....         |
| Observation and Practice Teaching, Ed. 344 .....                              | .....       | .....         | 5(5-0)        |
| History of Industrial Education, I. A. 341....                                | 3(3-0)      | .....         | .....         |
| Tests and Measurements, Ed. 236 .....                                         | .....       | .....         | 5(5-0)        |
| Vocational Guidance, Ed. 341 .....                                            | 3(3-0)      | .....         | .....         |
| Methods of Teaching, I. A. Ed. 343 .....                                      | .....       | 5(5-0)        | .....         |
| **Comprehensive Shop Projects, I. A. 348....                                  | .....       | 3(0-6)        | .....         |
| Working Drawings, A. E. 334, 335, 336.....                                    | 3(1-4)      | 3(1-4)        | 3(1-4)        |
| *Electives .....                                                              | 3 Hrs.      | 3 Hrs.        | 3 Hrs.        |
|                                                                               | 19          | 17            | 18            |

**Suggested Electives**

|                                                                        |        |
|------------------------------------------------------------------------|--------|
| General Psychology, Ed. 221 .....                                      | 5 Hrs. |
| ***Methods of Teaching Mathematics, Ed. 246 .....                      | 5 Hrs. |
| Mechanical Drawing, 323, 324, 325 .....                                | 6 Hrs. |
| Bricklaying 311, 312-M. B. ....                                        | 3 Hrs. |
| Carpentry 312, 313 .....                                               | 3 Hrs. |
| Carpentry 314 .....                                                    | 5 Hrs. |
| Cabinet Making 312, 313 .....                                          | 3 Hrs. |
| Cabinet Making 314 .....                                               | 5 Hrs. |
| Wood Turning, Upholstering, and<br>Finishing 338-A, 339-A, 340-A ..... | 3 Hrs. |

\* Electives to be approved by the Dean of the School in which student is registered.

\*\* This course may be waived at the discretion of the School when individual experiences justify such action.

\*\*\* When mathematics is chosen as a minor subject.

**CURRICULUM FOR TRADE TEACHERS**

(See first year's Curriculum of Mechanic Arts)

**Freshman Year**

|                                              | <b>Fall</b> | <b>Winter</b> | <b>Spring</b> |
|----------------------------------------------|-------------|---------------|---------------|
| **Industrial Lab., C. I. 321, 322, 323 ..... | 6(1-10)     | 8(1-14)       | 8(1-14)       |
| Physics 321, 322, 323 .....                  | 5(4-2)      | 5(4-2)        | 5(4-2)        |
| Military Science 221, 222, 223 .....         | 2(3-2)      | 2(3-2)        | 2(3-2)        |
| *Mechanical Drawing 323, 324, 325 .....      | 3(0-6)      | 3(0-6)        | 3(0-6)        |
| Materials of Construction 324 .....          | 3(3-0)      | .....         | .....         |
| *Surveying, Math 324 .....                   | .....       | .....         | 2(0-4)        |
| ***Machine Shop Practice, M. E. 328, 329.... | 2(0-4)      | 2(0-4)        | .....         |

\* An alternate course may be offered for those majoring in shoe repairing or in tailoring.

\*\* Students must elect a shop in the field of their major interest. One quarter of the number of hours prescribed may be electives. Three hours must be spent in the shop for each hour of credit obtained.

\*\*\* An alternate course may be offered for those majoring in masonry.

| Junior Year                                  | Fall    | Winter  | Spring  |
|----------------------------------------------|---------|---------|---------|
| Industrial Lab., C. I. 331, 332, 333 .....   | 8(1-14) | 8(1-10) | 8(1-10) |
| Freehand Drawing, Art 311, 312, 314 .....    | 3(0-6)  | 3(0-6)  | 3(0-6)  |
| Applied Mathematics, Math 335, 336, 337....  | 3(3-0)  | 3(3-0)  | 3(3-0)  |
| *Heating and Ventilating, M. E. 334, 335.... |         | 3(3-0)  | 3(3-0)  |
| Educational Psychology, Ed. 231 .....        | 5(5-0)  |         |         |
| Vocational Education, Ed. 331 .....          |         | 3(3-0)  |         |
| Trade Analysis, Ed. 332 .....                |         |         | 3(3-0)  |
| Electric Wiring, I. A. 326 .....             |         |         | 2(0-4)  |
| Senior Year                                  | Fall    | Winter  | Spring  |
| Industrial Lab., C. I. 341, 342, 343 .....   | 8(1-14) | 4(1-6)  | 6(1-10) |
| Economics 231, 234 .....                     | 5(5-0)  |         | 5(5-0)  |
| Estimating, C. I. 344 .....                  |         | 5(5-0)  |         |
| Materials, Equipment, and Shop               |         |         |         |
| Management, I. A. 347 .....                  |         | 3(3-0)  |         |
| Vocational Guidance, Ed. 341 .....           | 3(3-0)  |         |         |
| Methods of Teaching Shop and                 |         |         |         |
| Related Subjects, Ed. 343 .....              |         | 5(5-0)  |         |
| Observation and Practice Teaching 344 .....  |         |         | 5(5-0)  |
| Working Drawings, A. E. 334, 335 .....       | 3(1-4)  | 3(1-4)  | 3(1-4)  |

### DESCRIPTION OF COURSES

**321. Advanced Woodwork.** Emphasis is placed on the practical operation of such machines as variety saw, band saw, radial saw, planer, jointer, mortiser, shaper, tenon machine, belt and drum sanding machines. Prerequisite: M. E. 317. Credit 3(0-6).

**322. Advanced Woodwork.** Further emphasis is placed on the use of power machinery so that the student may develop facility in their use. The principles of panel construction, the various ways of tenoning, proper methods of gluing, and the most practical methods of laying out work are demonstrated. Prerequisite: I. A. 321. Credit 5(0-6).

**323. Advanced Woodrork.** Construction of projects from drawings or blueprints. Also care of power machines, saw filing, band saw brazing, sharpening and setting planer knives are part of the course.

**324. Materials of Construction.** A study of the manufacture and physical properties of iron, steel, timber, cement, concrete, and other materials encountered in technical fields, and the A. S. T. M., specifications and methods of testing. Prerequisite: Chem. 113. Credit 3(3-0).

**325, 326. Automobile Mechanics, Electric Wiring.** These courses aim to enable the student to conduct exploratory work either in unit shops or in general industrial arts shops. Credit 3(0-6), 2(0-4) respectively.

**331. Vocational Drawing.** Correlation between mechanical drawing and shop projects. Elementary principles of industrial arts design. Prerequisite: M. E. 311, 312. Credit 3(0-6).

**332. Vocational Drawing.** Proportion, balance, and gracefulness in design of shop projects. Prerequisite: I. A. 332. Credit 3(0-6).

**333. Vocational Drawing.** Designing of school shops; selection and location of equipment with respect to use and economy. Prerequisite: I. A. 332. Credit 3(0-6).

**338. Wood-Turning.** Thorough drill in the cutting action of turning tools and methods of holding them. Projects in spindle and in face plate turning are selected for practice. Instruction is also given in finishing and polishing on the lathe. Credit 3(0-6).

**338A. Wood-Turning.** Instruction is given in elaborate and more intricate types of turning than are given in I. A. 338. Projects involving spherical and taper turning are included.

**339. Upholstery.** Instruction includes caning and seat wearing method of upholstering a plain board surface, methods of fastening webbing, burlap and its uses, upholstery with springs, hard-edge upholstery, and spring edge upholstery. Credit 3(0-6).

**333A. Upholstery.** A continuation of 339, including construction or rebuilding of an upholstered project.

**340. Wood Finishing.** Instruction is given in the mechanical preparation of wood before staining, the preparation and use of stains and the application of different classes of commercial stains, kinds of fillers—their preparation and application, surface or refinishing coats, such as wax, oil, shellac, varnish, paint, and enamel. Credit 3(0-6).

**340A. Wood Finishing.** Refinishing, French polishing, and special work in finishing and polishing on the lathe. Credit 3(0-6).

**341. History of Industrial Education.** A foundation and orientation course in industrial education. Familiarizes the student with the underlying philosophy, the basic principles, the prevailing practices and the accepted terminology in trade and industrial education. Credit 3(3-0).

**347. Materials, Equipment and Shop Management.** The problems of equipping and arranging trades and industrial art shops and the care of tools, materials, safety first, and management are discussed. Credit 3(0-6).

**348. Comprehensive Shop Projects.** The student will be required to engage in such practical work as his individual needs seem to warrant. This work may include general construction and/or repair, maintenance work or advanced project involving wood turning, carving, inlaying, upholstering, and wood finishing. Credit 3(0-6).

### CURRICULUM FOR COMMERCIAL INDUSTRIES

This course is designed to meet the needs of students who desire to have practical experience and knowledge of the subject-matter as well as the technical training required for effective service in such vocations as automobile mechanics, carpentry, cabinet making and upholstery, masonry, mechanical drawing, plumbing and steamfitting, shoe repairing, and tailoring.

These fields of specialization will pursue the following curriculum.

### CURRICULUM

#### Freshman Year

(See first year's Curriculum of Mechanic Arts)

#### Sophomore Year

|                                             | Fall   | Winter | Spring |
|---------------------------------------------|--------|--------|--------|
| **Industrial Lab., C. I 321, 322, 323 ..... | 5 Hrs. | 6 Hrs. | 6 Hrs. |
| Physics, 321, 322, 323 .....                | 5(4-2) | 5(4-2) | 5(4-2) |
| Military Science, M. S. 221, 222, 223 ..... | 2(3-2) | 2(3-2) | 2(3-2) |
| Mech. Drawing, M. E. 323, 324, 325 .....    | 3(0-6) | 3(0-6) | 3(0-6) |
| Machine Shop Practice, M. E. 328, 329 ..... | 2(0-4) | 2(0-4) | .....  |
| Surveying, Math. 324 .....                  | .....  | .....  | 2(0-4) |
| Materials of Construction, I. A. 324 .....  | 3(3-0) | .....  | .....  |

| Junior Year                                           |       | Fall   | Winter | Spring |
|-------------------------------------------------------|-------|--------|--------|--------|
| **Industrial Lab., C. I. 331, 332, 333 .....          | ..... | 6 Hrs. | 6 Hrs. | 8 Hrs. |
| Freehand Drawing, Art 311, 312, 3113 .....            | ..... | 3(0-6) | 3(0-6) | 3(0-6) |
| Applied Math., C. I. 335, 336 .....                   | ..... | 3(3-0) | 3(3-0) | .....  |
| Heating and Ventilating, M. E. 334, 335 .....         | ..... | .....  | 3(3-0) | 3(3-0) |
| Business Correspondence, B. A. 339 .....              | ..... | 5(5-0) | .....  | .....  |
| Public Speaking, Eng. 224 .....                       | ..... | .....  | 3(3-0) | .....  |
| Electric Wiring, I. A. 326 .....                      | ..... | .....  | .....  | 2(0-4) |
|                                                       |       | 17     | 18     | 16     |
| Senior Year                                           |       | Fall   | Winter | Spring |
| **Industrial Lab., C. I. 341, 342, 343 .....          | ..... | 5 Hrs. | 8 Hrs. | 7 Hrs. |
| Principles of Sociology, Soc. 231 .....               | ..... | 5(5-0) | .....  | .....  |
| Estimating, C. I. 344 .....                           | ..... | .....  | 5(5-0) | .....  |
| Economics, 231, 234 .....                             | ..... | 5(5-0) | .....  | 5(5-0) |
| Mat., Equip., and Shop Management,<br>I. A. 347 ..... | ..... | .....  | 3(3-0) | .....  |
| Working Drawings, A. E. 334, 335, 336.....            | ..... | 3(1-4) | 3(1-4) | 3(1-4) |
| Electives .....                                       | ..... | .....  | .....  | 3      |
|                                                       |       | 18     | 19     | 18     |

### COURSES IN COMMERCIAL INDUSTRIES

The student must decide at the beginning of the second year the field of his major interest, and he must choose the industrial laboratory course suitable to that field. The field of interest is designated by the letter immediately following the course number; that is, C. I. 321-A would indicate that the student is pursuing his major work in the field of automobile mechanics.

The industrial laboratory courses may be in automobile mechanics, carpentry, cabinet making and upholstery, masonry, mechanical drawing, plumbing and steamfitting, shoe repairing, and tailoring.

The number of hours of industrial laboratory work may vary with the individual, depending upon his ability and experiences. The total number of credit hours should normally vary from fifty-five to sixty-five.

**C. I. 335. Applied Math.** This course consists of application of mathematics to practical problems that may arise in the

\*\* Students must elect a shop in the field of their major interest. One quarter of the number of hours prescribed may be electives. Three hours must be spent in the shop for each hour of credit obtained.

field and shop. It helps the student to apply their mathematics to everyday problems. Credit 3(3-0).

**C. I. 336. Applied Math.** Continuation of 335 with emphasis placed on problem in respective field. Prerequisite 335. Credit 3(3-0).

**C. I. 344. Estimating.** Estimating as applied to the respective fields of interest. Practical problems in taking of quantities and estimating. Individual problems in the respective fields. Credit 5(5-0).

**C. I. 346. Principles of Foremanship.** Shows the place of the foreman in industry, his relationship between worker and manager, and the more recent principles and practices for developing better foremen. Credit 3(3-0).

### **COURSES IN INDUSTRIAL AND VOCATIONAL EDUCATION**

**331. Vocational Education.** The problems of vocations are considered from the standpoint of the basic principles of psychology and the laws of learning, the principles of economics and sociology, and the principles and practices of sound school administration. Winter. Credit 3(3-0).

**332. Trade Analyssi.** This course gives the students a knowledge of organizing trades and industrial arts courses. Emphasis is put on the selection of a line of useful and practical projects and the grouping of these projects in the order of their learning difficulties. Spring. Credit 3(3-0).

**341. Vocational Gudiance.** The problem of vocational guidance, its beginning, organization and administration in high schools. Special attention will be given to guidance in the Junior and Senior high school as it relates to the work of Industrial Arts. Fall. Credit 3(3-0).

**342. Occupational and Educational Opportunities.** Winter Credit 3(3-0).

**343. Methods of Teaching Shop and Related Subjects.** Fundamental factors in teaching, agencies of education, classroom management, selection of problems and projects, job sheets and lesson plans. Winter. Credit 5(5-0).

**344. Observation and Practice Teaching in Trade and Industrial Arts Education.** Practical experience in conducting unit trade and industrial arts programs will be afforded. Spring. Credit 5 (5-0).

(See also I. A. 341.)

### For Graduates and Advanced Undergraduates

Graduate work in industrial education aims to aid the promotion of industry by providing advanced technical training for those who plan to follow industrial careers and for teachers of industrial arts or vocational industrial education. The department offers instruction for the following types of students: (1) those in the field who desire advanced training as teachers or supervisors of unit and general industrial arts shops in junior and senior high schools; and in schools of the smaller communities; (2) experienced tradesmen with the necessary teaching requirements who desire additional training in the development and conduct of programs of industrial education, especially those established under the Smith-Hughes Act; (3) teachers of related or cognate subjects; (4) others who desire further training in these fields.

**521. Philosophy of Vocational Education.** The place and need of vocational education in a democracy with special attention to the evolution of the philosophy of vocational education as a phase of the general education program. Credit 3 hours.

**523. Current Problems in Industrial Arts and Vocational Education.** Problems involving analysis of objectives, content, types of equipment, and outcomes together with constructive suggestions for improving current practices. Credit 3 hours.

**542. Laboratory Planning for Industrial Arts.** Analysis of problems and standards involved in planning rooms and practice in the selection, design, location, installation, and care of equipment in various high school industrial arts laboratories or vocational shops. Credit 3 hours.

**525. Supervision and Administration of Vocational Education.** This course concerns itself with such topics as the selection and organization of curriculum materials, the development and preparation of shop budgets, the establishing and equipping of shops, and the selection and employment of teachers. Credit 3 hours.

**526. Vocational Guidance.** Perfecting a guidance course for rural boys with special emphasis on counselling. Credit 3 hours.

**527. Diagnostic Techniques in Vocational Guidance.** Detailed study and analysis of the various personnel procedures and techniques used in counselling. Credit 3 hours.

**529. Visual Aids in Education.** Designed to give the students practical experience in the use of general techniques in teaching with the visual materials. Practice in the operation and maintenance of projection equipment is provided. Credit 3 hours.

**531. Production Methods in Machine Woodworking.** An analysis of production methods in machine woodworking in which jobs are selected and the class personnel so organized that the work follows the most economical methods of production. Credit 3 hours.

**532. Seminar in Industrial Education.** A consideration of scientific method with particular reference to thesis writing. Credit 3 hours.

**533. Seminar in Vocational Education.** Investigations and discussions for advanced and mature persons, who have had experience as teachers, supervisors, or administrators in one or more phases of vocational education. Credit 3 hours.

**534. Time and Motion Study.** Techniques of time and motion study for purposes of developing efficiency. Credit 3 hours.

**535. Industrial Psychology.** Application of principles of psychology to problems of industrial organization, management, and efficiency. Credit 3 hours.

**536. Techniques and Methods of Research.** Research problems. Credit 3 hours.

## DEPARTMENT OF MATHEMATICS

All freshmen are required to take a placement test in mathematics. Those failing this test must register for mathematics 309.

A minimum of ten hours of mathematics is required for graduation from all schools except The School of Agriculture.

The following is suggested for those desiring a major and is recommended for those planning to do research work, graduate study or teach.

Those persons pursuing mathematics as a major should take mathematics 313 in the freshman year and Physics 323 during their sophomore year.

### MAJOR IN MATHEMATICS

#### Junior Year

|                                     | Fall   | Winter | Spring |
|-------------------------------------|--------|--------|--------|
| Calculus, Math. 321, 322, 323 ..... | 5(5-0) | 5(5-0) | 5(5-0) |
| Math. 324 .....                     | .....  | .....  | 2(0-4) |

#### Senior Year

|                                         | Fall   | Winter | Spring |
|-----------------------------------------|--------|--------|--------|
| Differential Equations, Math. 331 ..... | .....  | 5(5-0) | .....  |
| Theory of Equations, Math. 501 .....    | .....  | .....  | 5(5-0) |
| Mechanics, Math. 326 .....              | 5(5-0) | .....  | .....  |
| Mathematics, Math. 325 .....            | .....  | .....  | 5(5-0) |

### COURSES IN MATHEMATICS

#### Undergraduates Only

**309. Remedial Mathematics.** This course is designed to strengthen and review the student in the fundamentals of arithmetic, plane geometry, and algebra. Students who fail to pass the placement test and students unable to pursue college algebra with a satisfactory degree of proficiency are advised to enroll in this course. Credit 0(3-0).

**311. College Algebra.** Review of elementary topics, such as factoring, fractions, simple equations, exponents, and radicals. Other topics studied are quadratics, simultaneous quadratic equations, logarithms, binomial theorem progression, determinants and permutation. Prerequisite: High School Algebra. Credit 5(5-0).

**312. Trigonometry.** Functions of angles and their practical applications to solution of problems, relations of acute logarithms of numbers and trigonometric functions, solutions of the right and oblique triangles by logarithms. Prerequisites: College Algebra and Plane Geometry. Credit 5(5-0).

**313. Analytic Geometry.** A thorough study of cartesian coordinates, curves, loci, straight line, circle, polar coordinates, conic sections completes the plane analytic geometry. Coordinates in space, loci, plane and straight line completes the course. Prerequisite: Math. 312. Credit 5(5-0).

**315. Mathematics of Business.** A basic course offered primarily for students of Business Administration. A study of elementary principles of mathematics as applied to investments, sinking funds, annuities, insurance, etc. The course is begun with a thorough study of interests—simple and compound. Credit 5(5-0).

**318. Elementary Mathematical Statistics.** A general course covering the use of graphs, frequency distributions, averages, measures of dispersion, etc., with an introduction to sampling and correlation; a basic course for all fields of application. Prerequisites: Math. 311, 315 and approval of instructor. Credit 5(5-0).

**321. Differential Calculus.** The fundamentals of differential calculus; maxima and minima; rates; curve tracing and application of derivatives, etc. Prerequisite: Math. 313. Credit 5(5-0).

**322. Integral Calculus.** Fundamentals of integral calculus, application of integrals to measurements of arcs, areas, and volumes, etc. Prerequisite: Math. 321. Credit 5(5-0).

**323. Differential and Integral Calculus.** A continuation of integral calculus. Solution of equations, application of integrals, center of gravity, moments of inertia, double and triple integration. Prerequisite: Math. 322. Credit 5(5-0).

**324. Surveying.** The method of using the compass, transit, tape and level in making plane surveys. Lectures and field

work. Elementary stadia work. Prerequisite: Math. 312. Credit 2(0-4).

**325. Survey Course in Mathematics.** A brief study of the meaning of the basic ideas of arithmetic, algebra, trigonometry, analytical geometry and calculus, and their relation to each other. Recommended for those who plan to teach mathematics. This course will not serve as a preprerequisite for any other courses in mathematics. Prerequisite: Math. 323. Credit 5(5-0).

**326. Mechanics.** The same as M. E. 331.  
Prerequisite: Math. 321. Credit 5(5-0).

**331. Differential Equations.** Solution of standard types of differential equations. Emphasis given on application to numerous examples in electricity and mechanics. Prerequisite: Math. 323. Credit 5(5-0).

#### Advanced Undergraduates and Graduates

**501. Theory of Equations.** Methods of solving cubics, quadratics and other higher algebraic equations. Methods of approximating roots, systems of equations, elements of determinants. Prerequisite: Math. 313. Credit 5(5-0).

**502. Mathematics of Life Insurance.** Probability, mortality tables, life insurance, annuities, endowments, computation of net premiums, evaluation of policies, construction and use of tables. Credit 3(3-0).

**503. Differential Equations.** Formulation of practical problems as solutions of differential equations, method of solving type forms, systems of equations, singular solutions, methods of approximation, an introduction to partial differential equation. Credit 5(5-0).

**504. Numerical Computation.** Interpolation, numerical solution of equations, approximations, numerical integration, construction of tables. Credit 3(3-0).

**505. Statistics Methods.** Sampling from biological populations, statistics and experimentation, averages and tests of

significance, linear, multiple and curvilinear regression, anaylsis of variance and covariance, individual comparisons. Credit 5(5-0).

**506. Advanced Calculus.** Review of differentiation and integration, approximation of integrals, partial derivatives, line integrals, integral theorems, applications to geometry, physics, and mechanics. Credit 5(5-0).

**507. Mathematical Statistics.** Averages, moments, correlation, probability, the normal and Poisson's distributions, the Gram-Charlier series, the distribution of statistics, sampling of populations, the Lexis theory, Sheppard's corrections, maximum likelihood, and other selected topics. Credit 3(3-0).

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## DEPARTMENT OF MECHANICAL ENGINEERING

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This curriculum offers a broad training in the scientific principles underlying mechanical engineering and correlates this by application to specific fields of machine design, heat power, heating, ventilating, refrigeration, thermodynamics, industrial management and manufacturing problems.

Lectures and class instruction are supplemented by laboratory investigations designed to emphasize the engineering and economic principles involved. Students who take professional requirements for certificate in addition to regular curriculum may certify to teach.

### CURRICULUM

#### Freshman Year

See first year's Curricula of Mechanic Arts

#### Sophomore Year

|  | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|--|-------------|---------------|---------------|
|--|-------------|---------------|---------------|

|                                           |        |        |        |
|-------------------------------------------|--------|--------|--------|
| Physics 321, 322, 323 .....               | 5(3-4) | 5(3-4) | 5(3-4) |
| Mathematics 321, 322, 323 .....           | 5(5-0) | 5(5-0) | 5(5-0) |
| Military Science 221, 222, 223 .....      | 2(3-2) | 2(3-2) | 2(3-2) |
| Machine Shop Practice 328, 329, 330 ..... | 2(0-4) | 2(0-4) | 2(0-4) |
| Mechanical Drawing 323, 324, 325 .....    | 3(0-6) | (3-06) | 3(0-6) |
| Mechanism M. E. 321 .....                 | .....  | .....  | 3(3-0) |
| Elective                                  |        |        |        |

**Junior Year**

|                                               | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------------------------|-------------|---------------|---------------|
| Electrical Engineering 331, 332, 333 .....    | 5(3-4)      | 5(3-4)        | 5(3-4)        |
| Mechanics, M. E. 331, 332, 333 .....          | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| Heat Power Engineering, M. E. 336 .....       | .....       | 5(5-0)        | .....         |
| Heating and Ventilating, M. E. 334, 335 ..... | .....       | 3(3-0)        | 3(3-0)        |
| Materials of Construction, I. A. 324 .....    | 3(3-0)      | .....         | .....         |
| Thermodynamics, Physics 332 .....             | .....       | .....         | 5(5-0)        |
| Economics 231 .....                           | 5(5-0)      | .....         | .....         |

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**Senior Year**

|                                               | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-----------------------------------------------|-------------|---------------|---------------|
| Machine Design, M. E. 341, 342, 343 .....     | 5(5-0)      | 5(3-4)        | 5(3-4)        |
| Heat Power Engineering, M. E. 344, 345 .....  | 5(5-0)      | 5(3-4)        | 5(3-4)        |
| Hydraulics, M. E. 337 .....                   | 3(30-)      | .....         | .....         |
| Contracts and Specifications, M. E. 327 ..... | .....       | .....         | 3(3-0)        |
| Internal Combustion Engines, M. E. 338 .....  | .....       | 5(5-0)        | .....         |
| Public Speaking, Eng. 324 .....               | 3(3-0)      | .....         | .....         |
| Surveying, Math 324 .....                     | 2(0-4)      | .....         | .....         |
| Testing Materials Lab., M. E. 346 .....       | .....       | .....         | 2(0-4)        |

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**Suggested Electives**

Differential Equations, Math. 331.  
 Education (Professional Certificate Requirements).  
 Estimating, C. I. 344.  
 Economics, Ec. 232, 234.  
 Special Problems in Mechanical Engineering.

**COURSES**

**311. Mechanical Drawing.** Instruction in proper use of drafting instruments and materials. Pencil drawings, Ink drawings. Tracing. Lettering. Emphasis placed upon accuracy and neatness. Credit 3(0-6).

**312. Mechanical Drawing.** Continuation of 311. Elementary fundamentals required for machine drawing, including isometric, oblique and simple projections, the construction of conics and rolled curves. Prerequisite: 311. Credit 3(0-6).

**314. Descriptive Geometry.** Short lectures and individual classroom instruction. Classroom exercises are issued in form of problem sheets which the student finishes according to directions. Emphasis is placed upon the ability to visualize the problems and processes of solution. The study of the fundamental conceptions of orthographic projection and fundamental problems on lines, planes and solids. Credit 3(1-4).

**317. General Wood Work.** Care and use of tools, principles of planning, squaring and laying out work. Laboratory practices and modern methods of pattern making. Woods used, glued joints, methods of building up draft shrinkage, coating and storage. Small individual projects. Credit 3(0-6).

**321. Mechanism.** A study of various types of mechanisms employed in the design of machines such as linkages, belting, cams and followers, gears, cones and wheel trains. Prerequisites: M. E. 323, Math. 312. Credit 3(3-0).

**323. Mechanical Drawing.** Drafting room exercises accompanied by lectures, making assembly drawing from blueprints of the details of some machine. Dimensions, reproducing, tracing, blueprinting. Prerequisite: 313. Credit 3(0-6).

**324. Mechanical Drawing.** Continuation of 323. Drafting room work in the solution of practical problems. Prerequisite: 323. Credit 3(0-6).

**325. Mechanical Drawing.** Continuation of 324. Working drawings, tracing and blueprints are made from subjects in the major field of the student; carburetors for mechanical engineers, electrical motors for electrical engineers, etc. Credit 3(0-6). Prerequisite: 324.

**327. Contracts and Specifications.** Elementary principles of contracts involving bids and bidders; methods of payment for contract and extra work; preparation and writing of specifications. Credit 3(3-0).

**328. Machine Shop Practice.** A study of the theory construction and operation of various machine tools, such as lathes, milling machines, shapers and the use of special tools and measuring instruments. Prerequisite: M. E. 311. Credit 2(0-4).

**329. Machine Shop Practice.** Construction of some project requiring the use of various machine tools and measuring instruments. Prerequisite: M. E. 341. Credit 2(0-4).

**330. Machine Shop Practice.** Continuation of M. E. 349. Credit 2(0-4).

**331. Mechanics. Statics.** Graphical and analytic resolution and composition of forces. Laws of equilibrium and force systems; stress in various types of frames; distribution forces; center of gravity moments of inertia and radii of gyration of plane areas and solids. Kinetics of solid bodies in plane motion. Credit 5(5-0).

**332. Mechanics. Strength of Materials.** Physical properties of materials; fundamentals of stress and strain in bodies under uniform or varying stresses; the theory of bending; shearing; bending moments; equation of elastic curve; deflections in beams; stress due to combined axial loading and bending. Prerequisite: 331. Credit 5(5-0).

**333. Mechanics. Structures.** A continuation of 332. Theory of column strength; torsion. Analytical trusses, columns, beams and girders. Design of wood and steel beams and columns. Calculation of roof loads, floor loads, loading on bridges, etc. Prerequisite: 332. Credit 5(5-0).

**334. Heating and Ventilating.** A study of the theory, design and installation of hot air, direct and indirect steam, hot water and fan heating systems; central heating and temperature control. Computations for heat losses and size of principal equipment. Layout of piping, ducts and auxiliary apparatus. Lectures, recitations. Credit 3(3-0).

**335. Heating and Ventilating.** Continuation of 334 with special attention given to air analysis and air conditioning. Discussion of methods of air refrigeration, distribution, humidity control and conditioning equipment. Lectures, recitations. Credit 3(3-0).

**336. Heat Power Engineering.** A description and analytic study of the principles involved in the application and utilization of heat in the steam boiler, steam engine, steam turbine and power plant auxiliaries, elementary thermodynamics, fuels and combustion. Prerequisite: Physics 322. Credit 5(5-0).

**337. Hydraulics.** Elementary principles of hydrostatics and hydrokinetics; laws of static; dynamic pressure, flow of water through orifices, tubes, nozzles, weirs, pipe lines and open channels, hydraulic friction and accompanying losses; water measurements in pipes and open channels. Credit 3(3-0).

**338. Internal Combustion Engines.** A study of the Otto and Diesel type engines and their auxiliaries; fuels, performance; design, applications and economics. Discussions, problems. Prerequisite: Physics 322. Credit 5(5-0).

**341. Machine Design.** A study of the properties of materials, the stresses in machine parts and procedures in design calculations. Lectures, recitations and problems. Prerequisite: M. E. 321 and 33. Credit 5(5-0).

**342. Machine Design.** Design of machine elements involving a consideration of static and dynamic forces, critical speeds and the application of the theories of strength and resistance of materials. Lectures, recitations and design periods. Prerequisite: M. E. 341. Credit 5(3-4).

**343. Machine Design.** A study of the design of gears and gear trains, shafts, screw, springs, clutches and castings. Prerequisite: M. E. 342. Credit 5(3-4).

**344. Heat Power Engineering.** A study of modern central and isolated power plants, fuels, combustion, boilers, settings, stoker, fuel and ash conveying systems and experimental tests. Prerequisite: M. E. 336. Credit 5(4-2).

**345. Heat Power Engineering.** Continuation of M. E. 344 with special attention given to steam engines, steam turbines, condensers, pumps, economics of power plants and experimental tests on various plant auxiliaries. Credit 5(3-4).

**346. Testing Materials Laboratory.** Laboratory work devoted to experiments and standard tests on various engineering materials, including steel, iron, wood, birch, sand, gravel, cement and concrete. Prerequisite: M. E. 332. Credit 2(0-4).

**347. Hydraulic Machinery.** A study of the theory, construction and operating characteristics of the principal types of hydraulic machinery. Lectures, recitation problems. Credit 3(3-0).

**348. Machine Shop Practice.** A study of the theory construction and operation of various machine tools such as lathes, milling machines, shapers and the use of special tools and measuring instruments. Prerequisite: M. E. 311. Credit 2(0-4).

**349. Machine Shop Practice.** Construction of same project requiring the use of various machine tools and measuring instruments. Prerequisite: M. E. 341. Credit 2(0-4).

**350. Machine Shop Practice.** Continuation of M. E. 349. Credit 2(0-4).

**351, 352, 353. Mechanical Engineering Laboratory.** Opportunity for advanced experimental study along any line of work in which student may be specializing. The student is left largely to his own resources in planning and carrying out work. Credit 2(0-4), 2(0-4), 2(0-4).

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## MILITARY SCIENCE AND TACTICS

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### RESERVE OFFICERS TRAINING CORPS

A senior unit of the Reserve Officers Training Corps is organized under authority of sections 40-47c, National Defense Act as amended.

The courses normally cover the four college years upon the successful completion of which the student is commissioned Second Lieutenant, Infantry, in the Officers Reserve Corps, Army of the United States. However, under present operating regulations (1943) the advance course of the third and fourth years has been suspended as an expedient in the accelerated program for the prosecution of the war.

The basic course ROTC instruction of the first and second years will be Branch Immaterial for the duration of the war.

Branch Immaterial provides fundamental instruction essential for every branch of the Army with emphasis placed on leadership. This essential instruction especially desirable for personnel who are not yet selected to enter a particular branch of the armed forces.

Two years of Military Science is required of all able bodied male students, beginning the freshman year. ROTC students under 18 years of age remaining in college who have completed the requirements for the basic course, may continue military instruction in the Army Specialized Training Program course. The ROTC Band offers opportunities for students to learn to play one or more instruments. Band equipment is furnished by the government for free use by cadets. Those students who are familiar with band instruments are encouraged to play in the band for further development. See Music 210 abc and 240 on page 140.

Uniforms, equipment and text books are furnished by the government free of cost. The student is responsible for the care and cleaning of the uniform and equipment. He is financially responsible for loss, and for excessive wear or breakage due to carelessness, or unauthorized use of clothing and equipment. Each student is required to have a certificate countersigned by his parent or guardian to insure that the government is reimbursed in case of loss or destruction of items issued to him.

### **COURSES OF INSTRUCTION**

**211. Military Science.** Army Orientation; Articles of War; Care of Clothing, Equipment, and Tent Pitching; Infantry Drill and Leadership; Marches and Bivouacs; Map Reading; Military Discipline, Customs and Courtesies; Military Sanitation and Sex Hygiene; Organization of the Army; Safeguarding Military Information. Fall. Credit 2(3-2).

**212. Military Science.** \*Army Orientation; Defense Against Air Attack; First Aid; \*Infantry Drill and Leadership; Interior Guard Duty; Marches and Bivouacs; \*Map Reading; Rifle Marksmanship. Winter. Credit 2(3-2).

**213. Military Science.** \*Army Orientation; \*Infantry Drill and Leadership; Individual Security and Scouting and Patrolling; \*Marches and Bivouacs; Night Operations; \*Rifle Marksmanship. Spring. Credit 2(3-2).

**211. Military Science.** \*Army Orientation; \*\*Articles of War; Defense Against Chemical Attack; Defense Against Mechanized Attack; \*\*Infantry Drill and Leadership; \*Map Reading and Aerial Photographs; \*\*Marches and Bivouacs; Military Discipline; \*Night Operations; \*\*Rifle Marksmanship; \*\*Sex Hygiene; Tactics of Small Units. Fall. Credit 2(3-2).

**222-4. Military Science.** Administration; Application of Military Law; \*Army Orientation; Drills and Ceremonies; \*Map Reading and Interpretation of Aerial Photos; \*\*Rifle Marksmanship; \*Tactics of Small Units; Training Management—Methods of Instruction. Winter. Credit 2(3-2).

**223-4. Military Science.** \*Army Orientation; Associated Arms; \*Drills and Ceremonies; Mess Management; \*\*Rifle Marksmanship; \*Training Management—Methods of Instruction. Spring. Credit 2(3-2).

The program and/or courses are subject to change by War Department directives, due to current changes of events.

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## MUSIC

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Music is recognized as of fundamental value in the enrichment of the life of every college man and woman. The principal and ultimate aim of our courses in music is directed toward the development of interest and a sincere desire to understand and appreciate all types of music more fully.

The curriculum is designed to give the student of talent, electing music as his main interest, a thorough training so that he will be prepared: (1) to teach music, (2) to continue the study of music after completing the courses here,

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\* Course continued from a previous quarter.

\*\* Course repeated as directed by Army Regulations for familiarization and/or proficiency.

(3) to be an influencing factor in the cultural development of his community.

A new course in instrumental music designed to prepare students to organize and train high school bands is now available to qualified persons. Those interested should see the band leader and be prepared to take a preliminary examination upon entering.

## COURSES OF INSTRUCTION

### Music Appreciation

The following six quarters of music appreciation may be taken by those students not interested in either a major or a minor in music; however, these courses are a part of the graduation requirements and must be taken during the first two years, unless art is taken instead.

#### **211a. An Introduction to Music Appreciation. (Formerly 211).**

This course aims to provide a general cultural background for the listener and includes a study of the instruments of the modern symphony orchestra. Credit 1(0-2).

#### **211b. An Introduction to Music Appreciation. (Formerly 212).**

A number of musical terms and the lives of a number of the earlier musicians are studied. The victrola is used for the hearing of musical examples. Credit 1(0-2).

#### **211c. An Introduction to Music Appreciation. (Formerly 213).**

Continued use of the Victrola and the study of the lives of musicians. Credit 1(0-2).

#### **221a. Music Appreciation. (Formerly 221).** This course deals with the characteristics of the eighteenth century music. Credit 1(0-2).

#### **221b. Music Appreciation. (Formerly 222).** Music of the nineteenth century is carefully studied and examined. Credit 1(0-2).

#### **221c. Music Appreciation. (Formerly 223).** Music of the nineteenth and twentieth centuries is carefully studied and examined. Credit 1(0-2).

### History of Music

The following courses in the history of music are required of all majors and minors in music and should be taken during either the second or third year.

**222a. History of Music. (Formerly 241).** This is a survey course and takes music from its early beginnings to the sixteenth century. Credit 3(3-0).

**222b. History of Music. (Formerly 242).** This is a survey course and takes music from the sixteenth century to the eighteenth century. Credit 3(3-0).

**222c. History of Music. (Formerly 243).** This is a survey course and takes music from the eighteenth century to our modern period. Credit 3(3-0).

### Theory of Music

The following three courses are basic courses for all persons planning a major or minor in music and should be taken during the freshman year. They are also prerequisites for all other music courses leading to a degree in either vocal or instrumental music.

**214. Fundamental Principles of Music Theory.** This course includes a study of all major and minor keys, scales, intervals, and triads. Credit 2(1-2).

**215. Fundamental Principles of Music Theory.** This is a continuation of 214 and work is begun in ear training and sight singing. Credit 2(1-2).

**216. Fundamental Principles of Music Theory.** This is a continuation of 215 with more advanced work being given in ear training, sight singing, and terminology. Credit 2(1-2).

### Harmony

The following six quarters of harmony are required for all majors in music. Minors in music are required to take the first three quarters. The first three courses should be taken during the second year.

**224. Elementary Harmony.** Review of all major and minor scales, intervals, triads, and their inversions. Also work at the keyboard, ear training, and dictation. Credit 3(2-2).

**225. Elementary Harmony.** This course includes the study of inversions of primary and secondary chords, sevenths and their inversions, and simple modulations. Also work at the keyboard, ear training, and dictation. Credit 3(2-2).

**226. Elementary Harmony.** This is a continuation of 225 and each student is expected to compose a hymn tune. Work will also be given at the keyboard along with ear training, and dictation. Credit 3(2-2).

**231. Advanced Harmony.** A continuation of 226 including modulations, chromatic alterations, ornaments, keyboard, ear training, and dictation. Credit 3(2-2).

**232. Advanced Harmony.** A continuation of 231. Harmonic and formal analysis is started along with the keyboard, ear training, and dictation. Credit 3(2-2).

**233. Advanced Harmony.** A continuation of 232. Credit 3(2-2).

The following three courses are required of all majors in instrumental music and should be taken during the senior year. Credit 3(2-2).

**247. Problems in Band Arranging.** A practical study of all instruments and the art of scoring for small combinations of instruments. Credit 2(2-0).

**248. Problems in Band Arranging.** This is a continuation of 247. The student also writes for combinations of instruments although sectional writing is stressed. Credit 2(2-0).

**249. Problems in Band Arranging.** The student learns to score for full band. As a class project one composition will be scored for full band. Credit 2(2-0).

#### Music Education

**227. Methods for Teaching in the Public Schools. (Formerly 234).** This course deals with the materials and methods for teaching in the primary grades with special attention given

to the care and testing of the adolescent voice. Credit 2(1-2).

**228. Methods for Teaching in the Public Schools. (Formerly 235).** This course deals with the materials and methods for teaching in the grammar grades with special attention given to the teaching of music theory in these grades. Credit 2(1-2).

**229. Methods for Teaching in the Public Schools. (Formerly 236).** This course deals with the materials and methods for teaching in the junior high and high school. Credit 2(1-2).

**237. Elementary Conducting. (Formerly 230).** This course includes the technique of the baton and the study of the different forms for the purpose of conducting. Also some time is devoted to the easy examples of score reading with an opportunity for practical experience in dealing with both vocal and instrumental groups. Credit 3(1-4).

**217. Instrumental Music Methods.** The percussion instruments are studied and the proper methods for teaching these instruments are carefully worked out. Credit 2(1-2).

**218. Instrumental Music Methods.** The woodwind instruments are studied and the proper methods for teaching these instruments are carefully worked out. Credit 2(1-2).

**219. Instrumental Music Methods.** The brass-wind instruments are studied and the proper methods for teaching these instruments are carefully worked out. Credit 2(1-2).

**243. Band Techniques. (Formerly 250).** The student learns about school band organization and administration. Credit 2(1-2).

**244. Band Techniques.** The student has an opportunity to do practical work in the teaching of woodwind, brass-wind, and percussion instruments under the guidance of the band leader. Credit 2(1-2).

**245. Band Techniques.** The student is given an opportunity to work with the college band and ensemble groups. Some time may be spent working with outside organizations for practical experience. Credit 2(1-2).

**246. Voice. (Formerly 251).** This course aims to give the student a knowledge of the proper fundamentals in breathing, breath control, and voice production. (Three hours credit of the total five hours of this course come from two years of satisfactory service in the musical organizations at the school. Credit 5(2-3).

**210abc. Beginning Band.** First year band. Any student may elect band during his freshman year with the permission of the band leader and the Professor of Military Science. Regular attendance is required at rehearsals. Credit 1(0-5).

**220abc. Beginning Band.** Second year band. Credit 1(0-5).

**230abc. Advanced Band. (Formerly 244abc).** Third year band. This organization is the regular College Concert and Marching Band and regular attendance is required at all rehearsals and public performances. All students recommended by an approved teacher and satisfying the departmental standards for the equivalent of two full years of previous study are eligible to enroll. Credit 2(1-4).

**240abc. Advanced Band. (Formerly 245abc).** Fourth year band. Same as above. Credit 2(1-4).

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## PHYSICAL EDUCATION

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The aims of this department are to develop organic power, vitality, the prerequisites to physical and mental efficiency; to secure muscular development, bodily skill and grace; to provide an incentive and an opportunity for every student to secure physical recreation as a balance to the sedentary demands of school life. The department also aims to teach social and moral values of games and sports, and also to establish high ideals of athletics. It trains the individual along the lines of leadership, fellowship, and develops a love of recreation.

Further, it aims to afford the student a keener realization of periodic health examinations; to give to the public trained recreational leaders.

All women students are required to complete six hours of physical education during their freshman and sophomore years. These will include the following:

One outdoor team game, one indoor game, one course in dancing, one course in individual sports, one course in gymnastics, and one optional. Those unable to take the regular courses because of physical conditions will register in the corrective courses.

Those women desiring to minor in physical education must complete 27 quarter hours, excluding the six quarter hours required for graduation. The required 27 hours may include any of the courses listed below with the exception of the courses listed for men only.

**\*Women Only**

**211ss. Soccer and Speedball.** Outdoor team games for women including the fundamentals and rules of both games. Fall. Credit 1(0-2).

**211h. Hockey.** Outdoor team game including the fundamentals and rules of the game. Fall. Credit 1(0-2).

**211t. Beginning Tap Dancing.** Includes all fundamental tapping steps that lead to syncopating buck rhythm. Fall. Credit 1(0-2).

**211at. Advanced Tap Dancing.** Offered for those persons who have had some previous training in tap dancing or have had Physical Ed. 211c. Winter. Credit 1(0-2).

**212b. Basketball.** Indoor team game, which includes fundamentals, technique and rules, and coaching technique. Winter. Credit 1(0-2).

**212v. Volley Ball.** Indoor team game, which includes fundamentals, technique and rules. Winter. Credit 1(0-2).

**212f. Folk Dancing.** Characteristic dances of all countries, including Sweden, Hungary, Austria, United States, etc. Winter. Credit 1(0-2).

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\* These courses are required of all freshman and sophomore women, including majors and minors in physical education.

**213s. Softball.** Outdoor team game including the fundamentals and rules of the game. Spring. Credit 1(0-2).

**213t. Tennis and Archery.** Includes fundamentals and practice in both. Considered as Individual Sports. Fall and Spring. Credit 1(0-2).

**213r. Rhythms.** Creative movements based on fundamental rhythms. May be used for the dancing requirement. Spring. Credit 1(0-2).

**213is. Individual Sports.** Badminton, table tennis, shuffleboard and other individual sports. Offered Winter and Spring. Credit 1(0-2).

**214. Gymnastics.** Contains practice in Danish gymnastics, apparatus, stunts and tumbling. Offered in the Fall, Winter and Spring. Credit 1(0-2).

**215abc. Correctives.** A course in specific exercise for those women who are unable to participate in regular Physical Education classes. Credit 1(0-2).

**216abc. Correctives.** This course is a continuation of the course 215abc. Credit 1(0-2).

**217. Modern Dancing.** Prerequisite: P. Ed. 213 or consent of instructor. Credit 1(0-2).

#### **Men Only**

**210abc. Obstacle Course.** This course is primarily designed to acquaint students with modern procedures in physical fitness, and to give them experience in the execution of tactical operations both under routine and combat conditions. Credit 2(0-4) each quarter.

**220abc. Obstacle Course.** This course is a continuation of 210abc. Credit 2(0-4) each quarter.

**225. Football.** This course deals with the fundamentals involved in the organization, training and development of football teams. Lectures and practical work constitute the course. Fall. Credit 2(1-2).

**225b. Basketball.** Same as 225. Winter. Credit 2(1-2).

**225c. Individual Games and Sports.** Tennis, handball, golf, badminton, track and field events, etc. Spring. Credit 2(1-4).

**225d. Track.** Same as 225. Spring. Credit 2(1-2).

**226a. Boxing. Winter.** Credit 1(0-2).

**226b. Group Games of High Organization.** Football, soccer, rugby, basketball, baseball, field hockey, etc. Spring. Credit 2(1-4).

**229a. Elementary Gymnastics.** This course will include the practice and principles of tumbling, apparatus, and other skills for self-testing activities. An attempt is made to teach skill in the various activities, as well as concomitant methods of how to teach these skills in the secondary school. Fall. Credit 2(1-2).

**229b. Advanced Gymnastics.** Continuation of 229a. Winter. Credit 2(0-2).

#### Men and Women

**226. Practices and Procedures in Physical Education.** Winter. Credit 3(2-2).

**228. Practices and Procedures in Health Education.** Spring. Credit 3(3-3).

**231. Principles of Physical Education.** This is a theory course, which deals in the main with the philosophy of physical education, emphasizing the aims, objectives, and goals of the various phases of the field. Fall. Credit 3(3-0).

**232. Recreational Leadership.** The training of persons in types of recreational and play activities, methods and qualifications of recreational leaders, and the organization and administration of recreation in various agencies. Winter. Credit 3(3-0).

**233. Personal Hygiene.** Personal health habits, attitudes, and knowledge are stressed in this course, with the aim of improving the individual health of the college student. Special emphasis will be placed on the two outstanding collegiate health problems, mental and sex hygiene. Fall. Credit 3(3-0).

**243, 244. Methods of Teaching Physical Education.** This course will point out the best procedures in acquiring the desired outcomes of physical education. Some of the class periods are spent in the actual practice of teaching physical education activities by members of the class. Methods of supervision are also treated. Winter and Spring. Credit 3(2-2) each quarter.

**236. Principles of Health Education.** Phases of the school health program, including health service, health instruction, healthful school living (the facilities and plant), are treated rather thoroughly, with the aim to acquaint the student with the functions, aims, program, and correlation of these aspects of the health program. School health problems are considered both from the standpoint of the classroom and health teacher and the administrator. Winter. Credit 3(3-0).

**237. Community Hygiene.** The field of public health as it affects community and individual health is covered, with special emphasis on the ways that the individual and community agencies may improve and maintain group hygiene. Such problems as sanitation, communicable disease, home hygiene and functions of the school, home, and other agencies in the public health program, and the coordination of the community health program, are discussed in the course. Spring. Credit 3(3-0).

**238. First Aid and Therapeutics.** Theory and practice in the care of injured persons and the technique of massage for healing. Persons completing this course will receive a Red Cross Certificate. Spring. Credit 3(2-2).

**245. History of Physical Education.** History of the development of various systems of physical education. Course stresses the development of method as a result of response to a social need. Fall. Credit 3(3-0).

**221. Human Anatomy.** A general study of human anatomy with special emphasis on muscles, bones and joints. Fall. Credit 3(2-2).

**222. Body Development.** Study of the bodily movements, types of muscular exercise and their relation to the problems of bodily developments. Prerequisite: P. Ed. 221. Winter. Credit 3(2-2).

**223. Remedial Gymnastics.** Physical examinations applicable to abnormal body conditions. The estimation of physical fitness by means of physical examinations, measurements and orthopedic tests. Prerequisite: P. Ed. 222. Spring. Credit 3(2-2).

**241. Physiology.** A course in elementary physiology, covering the muscular cardiorespiratory, nervous, gastro-intestinal and reproductive systems. Fall. Credit 5(5-0).

**242. Physiology of Exercise.** Consideration is given to the physiological adjustments of the various systems which occur during muscular activity. Winter. Credit 3(3-0).

**249. Organization and Administration of Physical Education.** This course deals with problems and procedures in physical education, including classification of students, organization of programs, class schedules, teaching load, equipment, records, administration of a gymnasium, etc. Fall or Winter. Credit 3(2-2).

**252. Officiating in Athletic Sports.** Spring. Credit 2(1-2).

**253. Theory of the Dance.** The purpose of this course is to develop in the student an understanding of the constructive value of the dance. Spring. Credit 3(2-2).

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## DEPARTMENT OF PHYSICS

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Students who wish to take advantage of numerous opportunities offered by physics and its applications during the war are urged to begin the major in physics as early as possible. Special permission may be granted to begin in the freshman year. Those considering the teaching of physics should keep in mind the requirements in the field of education.

## MAJOR IN PHYSICS

|                                              | Junior Year | Fall   | Winter | Spring |
|----------------------------------------------|-------------|--------|--------|--------|
| Physics 331. Electricity and Magnetism ..... |             | .....  | .....  | 5(5-0) |
| Chemistry 111, 112, 113 .....                | 5(3-4)      | 5(3-4) | 5(3-4) |        |
| Physics 502. Heat .....                      |             | 5(2-6) | .....  |        |
| Physics 336. Mechanics .....                 | 5(5-0)      | .....  | .....  |        |
| Education 231 .....                          | .....       | .....  | 5(5-0) |        |
| Education 327, 238 .....                     | 3(3-0)      | 3(3-0) | .....  |        |
| Education 236 .....                          |             | .....  | 5(5-0) |        |
| Electives .....                              | 5           | 5      | .....  |        |
|                                              |             | 18     | 18     | 20     |
|                                              | Senior Year | Fall   | Winter | Spring |
| Physics 334, 335. Electrical Measurements.   |             | 5(3-4) | 5(3-4) | .....  |
| Same as E. E. 334, 335 .....                 | 5(3-4)      | 5(3-4) | .....  |        |
| Physics 333. Electron Physics .....          |             | 5(5-0) | .....  |        |
| Physics 314. Photography .....               | 5(2-6)      | .....  | .....  |        |
| Physics 332. Thermodynamics .....            | .....       | 5(5-0) | .....  |        |
| Physics 505. Modern Physics .....            | .....       | .....  | 5(5-0) |        |
| Education 251 .....                          |             | .....  | 5(5-0) |        |
| Physics 503. Optics .....                    | 5(2-6)      | .....  | .....  |        |
| Education 249 .....                          |             | 5(5-0) | .....  |        |
| Electives .....                              | 3           | .....  | 3      |        |
|                                              |             | 18     | 20     | 13     |

## COURSES IN PHYSICS

**311. Household Physics.** Special emphasis is given to the applications of mechanics, heat, and electrical principles to the modern household. Credit 5(4-2).

**314. Photography.** A study of the optical requisites of the camera, proper exposure, development and printing, lantern slides, micro-photography, projection prints and color photography. Credit 5(2-6).

**321. General Physics.** A general survey course dealing with the properties of mechanics of liquids and gases, mechanics of solids, and heat. Credit 5(4-2).

**322. General Physics.** A general survey course dealing with sound and light. Credit 5(4-2).

**323. General Physics.** A general survey course dealing with magnetism and electricity. Credit 5(4-2).

**331. Electricity and Magnetism.** A presentation of the theory of direct current and alternating current electricity, including topics in magnetism and electricity. Prerequisite: 323. Credit 5(4-0).

**332. Thermodynamics.** A study of the applications of thermodynamics to heat engines, air compression, and refrigeration. Prerequisite: Physics 323. Credit 5(5-0).

**333. Electron Physics.** A study of cathode rays, charge and mass of the electron, photoelectricity, radioactivity, thermionic emission, radiation and ionization potentials. Prerequisite: Physics 331. Credit 5(5-0).

**334. Electrical Measurements.** Same as E.E. 334. Prerequisite: Physics 331. Credit 5(3-4).

**335. Electrical Measurements.** Same as E.E. 335. Prerequisite: Physics 334. Credit 5(3-4).

**336. Photography.** A study of the optical requisites of the camera, proper exposure, development and printing, lantern slides, micro-photography, projection prints and color photography. Credit 5(2-6).

#### **Advanced Undergraduates and Graduates**

**501. Meteorology.** A study of weather maps and polar front analysis is included together with a discussion of the principles underlying weather forecasting, causes of weather changes. Credit 5(5-0).

**502. Heat.** Methods of temperature measurement, specific heats, thermal expansion in solids, in liquids and in gases, conduction, radiation, kinetic theory of gases, change of state, low and high temperature measurements. Prerequisite: Physics 323. Credit 5(2-6).

**503. Physical and Geometric Optics.** A study of the physical properties of light, velocity, wave properties, color, optical instruments. Prerequisite: Physics 323. Credit 5(2-6).

**505. Modern Physics.** A course dealing with the significant advances of physics since 1900. Includes atomic structure, elementary quantum. Prerequisite: Physics 333. Credit 5(5-0).

## **RELIGION AND ETHICS**

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**231. A Guide to Bible Study.** A guide to an understanding of the Bible. The purpose of the course is to acquaint the student with the contents of the Bible and to suggest satisfactory methods of interpretation. Materials of the Old Testament. Fall. Credit 3(3-0).

**232. A Guide to Bible Study—Part II.** This is a continuation of 231 with the use of material from the New Testament. Winter. Credit 3(3-0.)

**233. The Teachings of Jesus.** A study of the teachings of Jesus in the light of their historical setting. An attempt will also be made to answer the question, what ethical and social implications have these teachings for us today? Spring. Credit 3(3-0).

**241. Religion and Personality Development.** An inquiry into the nature of individual religious experience as expressed in worship, prayer, conversion, etc. The function of religion in personality development and adjustment. Fall. Credit 3(3-0).

**242. The Christian Religion and Contemporary Problems.** An attempt to define the role and function of religion in the social process. What is religion's social responsibility in the face of contemporary social problems? Winter. Credit 3(3-0).

**243. The Negro's Church.** A study of the historical development of the Negro's church. A study of the sectarian and denominational trends. An appraisal of its assets and liabilities. Spring. Credit 3(3-0).

## RESEARCH

**246. Senior Research.** An introduction to methods of gathering, recording, and interpreting information. Open only to seniors in the School of Education and Sciences. Each student will either complete a long paper, which in certain cases (see p. 48) will constitute a thesis, or contribute to the completion of a project requiring the work of two or more students. Given each quarter. Credit 3 (3-0).

For graduate research in specific fields, see Index to Graduate Courses, p. 55.

## DEPARTMENT OF SOCIAL SCIENCES

A minimum of 15 quarter hours of history is required for graduation in the School of Education and Sciences or in Fine Arts (see page 47). Majors in this department are required to pass a comprehensive examination in the field of social sciences at the end of the Winter Quarter of their senior year.

Freshmen and sophomores will find course suggestions and requirements on p. 50.

### MAJORS IN SOCIAL SCIENCES

|                                                                   | <b>Junior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-------------------------------------------------------------------|--------------------|-------------|---------------|---------------|
| Ancient and Mediaeval History, Hist.<br>231, 232 .....            |                    |             | 5(5-0)        | 5(5-0)        |
| Economics, Ec. 231, 232 .....                                     |                    | 5(5-0)      | 5(5-0)        | .....         |
| Money and Banking, Ec. 233<br>or<br>Labor Problems, Ec. 234 ..... |                    | .....       | .....         | 5(5-0)        |
| Sociology 231, 232, 242 .....                                     | 5(5-0)             | 5(5-0)      | 3-3-0         |               |
|                                                                   | <b>Senior Year</b> | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
| Principles of Geography, Geo. 240 .....                           | .....              | 5(5-0)      | .....         |               |
| Commercial Geography, Geo. 241 .....                              | .....              | .....       | 5(5-0)        |               |
| Latin American History, Hist. 233 .....                           | .....              | .....       | 3(3-0)        |               |
| Federal Government, Pol. Sc. 231 .....                            | 5(5-0)             | .....       | .....         |               |
| State Government, Pol. Sc. 232 .....                              | .....              | 5(5-0)      | .....         |               |
| Electives .....                                                   | 5(5-0)             | 5(5-0)      | 5(5-0)        |               |

**COURSES IN HISTORY**

**211. Modern Europe.** A survey course dealing with major factors and movements in the history of Modern Europe. It deals with economic, social, political, religious, and intellectual problems in their relationship to the development of national states, growth of democracy and the expansion of Europe from 1500 to 1815. Lectures, collateral reading, special reports and map work. Fall and Spring. Credit 5(5-0) each.

**212. Modern Europe.** A survey of the history and development of Europe from 1815 to the present. Credit 5(5-0).

**213. History of the Negro.** This course begins with a brief survey of the African background of the Negro and traces him from Africa to America. It includes a study of his enslavement, with special emphasis on slavery in America, the Free Negro before 1860, abolition, and the Civil War with special emphasis on the part played by Negro troops, achievements since 1865 and forces in Negro progress. Winter or Spring. Credit 5(5-0).

**221. American History.** This course includes a survey of English history at the time the colonies were founded, and an economic, social, and political development of the colonies and of the United States down to 1865. Credit 5(5-0).

**222. United States History.** An intensive study of the political, social, and economic history of the United States from 1865 to the present. Credit 5(5-0).

**223. History of Reconstruction.** An intensive study of the social, political and economic conditions of the United States during the years 1865 to 1895. Prerequisite: 15 hours of history. Winter. Credit 3(3-0).

**226. History of England.** A survey of the social and political development of England in the 16th, 17th, and 18th centuries. Credit 5(5-0).

**231. Ancient History.** This course is designed for those majoring in the field or who plan to teach history in secondary

schools. It includes a study of the civilization and contributions of the people of the Orient, along the Nile and of Greece and Rome. Prerequisite: 15 hours of history. Fall. Credit 5(5-0).

**232. Mediaeval History.** A history of the middle ages with particular attention to social and economic conditions and cultural and religious development. Prerequisite: 15 hours of history. Winter. Credit 5(5-0).

**233. History of Latin America.** A study of the rise and development of the Latin-American nations, with special attention to their relations with each other and with the outside world. Prerequisite: 15 hours of history or consent of instructor. Spring. Credit 3(3-0).

**234. Contemporary American History.** Analysis of important problems in American history since the World War, with emphasis on the domestic and foreign policies of the New Deal. Any quarter. Credit 3(3-0).

**245. Research Problem.** Open only to seniors majoring in the field. Any quarter. Credit 3(0-6).

#### COURSES IN POLITICAL SCIENCE

**231. Federal Government.** A general introductory course in the government of the United States to acquaint the student with the more important facts of the organization and working of Federal institutions and to give a foundation for more advanced work in government. The principles of political science; the state, the nation, the government; constitution, the federal executive, cabinet, and courts. Prerequisite: 15 hours of Soc. Science or consent of instructor. Fall. Credit 5(5-0).

**\*232. State and Local Governments.** A study of state constitutions and of the structure and functions of state and local institutions in the United States. Prerequisite: 15 hours of Soc. Science or consent of instructor. Winter. Credit 5(5-0).

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\* Offered in alternate years. Not offered 1944-45.

## GEOGRAPHY

**240. Principles of Geography.** This course is a survey of the principles of geography. The earth, air, sea, and land studied with particular emphasis upon the physiographic features of North America. Credit 5(5-0).

**241. Economic Geography (formarly known as Commercial and Industrial Geography).** This course deals with natural environment and natural resources in relation to the various economic activities of man with particular emphasis on the development of the United States. This is followed by regional approach in relation to economic activities. Credit 5(5-0).

## COURSES IN SOCIOLOGY

(See also Rural Sociology, page 69)

**231. Principles of Sociology.** A general survey of the field of sociology as a social science. Particular emphasis will be laid on social organization, conditions and problems. Fall. Credit 5(5-0).

**232. Social Problems.** A review of social problems resulting from maladjustments such as dependency, disorganization, industrial unrest, crime and the like, that stand in the way of social well being. Emphasis on current programs for social planning and reform. Prerequisite: Soc. 231 or consent of instructor. Winter. Credit 5(5-0).

**233. Rural Home Life.** A survey of the home life of Negroes, living on farms and in rural communities, including means and methods of improvement; field and observation tours will be a part of the course; Prerequisite: Soc. 231 or consent of instructor. Spring. Credit 5(3-4).

**241. The Family.** A survey of the family organization from primitive times to the present, and the analysis of the factors that enter into family development. Prerequisite: Soc. 231 or consent of instructor. Fall. Credit 3(3-0).

**242. Race Relations.** A study of local conditions, situations, attitudes and progress of the various races in the United States, and methods of dealing with interracial problems.

Prerequisite: Soc. 231 or consent of instructor. Winter. Credit 3(3-0).

**243. Public Relations.** Methods and policies of establishing and maintaining friendly relationships with newspapers and other community enterprises. Such topics will be reviewed as editorials, propaganda, advertisements, public opinion and sources and evaluation of news. Credit 3(3-0).

### Graduates and Advanced Undergraduates

**501. Leadership.** Survey and critical analysis of qualities and factors essential for good leaders in American life. Prerequisite: Sociology 232. Credit 3(3-0).

**502. Current Economic and Social Problems.** A practical course in applied economics and sociology dealing with analysis of present trends in government economics, industry, agriculture and the social implications of these trends. Current problems of everyday life are emphasized. Prerequisite: 15 hours of social science. Credit 3(3-0).

**503. Research Problems.** Individual problems for research in each student's field of interest—labor, industry, agriculture, unemployment, old age, etc. Prerequisite: 15 hours of social science. Credit 3(1-4).

**505. History of Social Theory.** A brief review of the contributions of social theorists beginning with Plato, with consideration given to the social situations and historical events that give rise and substance to their writings. Open to majors in any of the social sciences, this course coordinates Sociology with Philosophy, History, Economics, Psychology and other related fields. Spring. Credit 3(3-0).

### COURSES IN ECONOMICS

**231. Principles of Economics.** This course surveys the general field of Economics. It considers the nature and scope of Economics, important economic institutions and economic characteristics of present society. Credit 5(5-0).

**232. Economic Problems.** This course is concerned with the important economic problems found in our productive and consumptive processes, commerce, market prices, variations

and adjustments in business, form of business organization, labor, capital, banking, public ownership and other related topics. Prerequisite: Ec. 231 or consent of instructor. Winter. Credit 5(5-0).

**\*233. Money and Banking.** This course includes a general survey of the field of money, banking and credit; monetary standards, inflation, deflation, international trade and purchasing power; recent federal monetary policy. Prerequisite: Ec. 231 or consent of instructor. Spring. Credit 5(-0).

**234. Labor Problems.** General introductory course, dealing with such labor problems as unemployment, wages, hours of labor, women in industry, child labor, industrial accidents, occupational diseases, industrial unrest, labor organizations, Negro labor, labor in national defense, and employers associations with examination of proposed solutions. Spring. Credit 5(5-0).

**254. Elements of Statistical Method.** A course intended to acquaint students with the elementary principles of statistics. The source and collection of data, the nature of statistical units; the properties and appropriate use of averages; methods of comparison; the tabular and graphic presentation of statistical information necessary to the formulation and execution of business and economic problems will be had through use of appropriate data. Fall. Credit 4(2-4).

#### For Undergraduates and Graduates

**501. Recent Labor Legislation.** Problems of labor from standpoint of the state; conciliation and arbitration, legal minimum wage, social insurance, and woman and child labor. Credit 3(3-0).

**502. Social Security Legislation and Administration.** The need for and development of social security legislation in Europe and in America, particularly unemployment insurance, old age benefits, and public assistance programs, scope and probable extension, functions of federal, state and local organizations; administrative and social problems encountered. Credit 3(3-0).

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\* Electives may be selected from other courses in the department.

## **VOCATIONAL SCHOOL**

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### **I. Trades and Industries**

- A. Auto-Mechanics**
- C. Carpentry**
- C.M. Cabinet Making and Upholstering**
- S.R. Shoe Repairing**
- T. Tailoring**
- Sec. Sc. Secretarial Science**
- M. Masonry**
- L. Laundry Management**
- Pl. Plumbing**

### **II. Short Course**

- A. Agricultural**

## VOCATIONAL COURSES

### AUTO MECHANICS

**Training Objectives:** This is a carefully organized program designed to prepare those young men and women inclined to be skilled mechanics. The practical side of the course has been so emphasized that upon the completion of the trade students will be qualified to become owners or managers of an auto service business as well as skilled mechanics in this field. A diploma will be awarded to those students satisfactorily completing the course.

**Length of Course:** Three years of nine months each depending upon the student's experience and ability.

**Amount of time required in shop:** Twenty hours per week, thirty-six weeks per year.

### CURRICULUM

During the first two years in the shop the student is expected to lay a broad foundation for later specialization. To secure this end the following essential courses are recommended:

|                                                           |         |
|-----------------------------------------------------------|---------|
| Mathematics, C. I. 335, 336 .....                         | 6 Hrs.  |
| Military Science 211, 212, 213, 221, 222, 223<br>or ..... | 12 Hrs. |
| Physical Education                                        |         |
| Education 211, 212, 213 .....                             | 3 Hrs.  |
| English 211, 212 .....                                    | 10 Hrs. |
| Machine Shop Practice, M. E. 328, 329, 330 .....          | 6 Hrs.  |
| Welding 311, 313 .....                                    | 5 Hrs.  |
| Carpentry 411, 412 .....                                  | 6 Hrs.  |
| Electives .....                                           | 10 Hrs. |

### SHOP COURSES

**411. Benchwork.** A study will be made and laboratory work given in thread cutting with dies and taps, clipping, filing, drilling, sharpening and use of small tools.

**412. Maintenance and Service.** Lecture on the principle of operation of maintenance of all chassis parts. Laboratory work will be on the disassembly and reassembly transmissions, rear ends, universal joints, shock absorbers, and braking systems.

**413. Power Plant.** Lecture, demonstration and laboratory work will be undertaken on the principle of the four-cycle engine, fuel and cooling systems.

**421. Power Plant.** General shop practice is designed to give a student experience in general overhaul of engine including adjusting of bearings, grinding valves, and installing rings.

**422. Power Plant.** Instruction will be given on use of the boring bar, connecting rod aligners, use of cylinder hone, reonuers, and fitting of pistons.

**423. Electrical System.** The fundamental principles of the electrical system, including magnetism, generators, starters, voltage and current regulators, automatic chalves, ignition, wiring and batteries will be studied.

**431. Body Work.** Lecture and demonstration on the use and care of body tools, along with laboratory is designed to give a student skill in body work.

**432. Painting.** This course is designed to give the student experience and knowledge of spraying of various enamels and lacquers.

**433.** A study will be made of problems pertaining to shop methods, estimating, and trouble shooting.

## MASONRY

**Training Objectives:** The objective of the program is to develop in the student skills and knowledge in masonry that he may successfully use in practical construction.

**Length of Course:** Three years of nine months each depending upon student's experience and ability.

**Amount of Time in Shop:** At least twenty hours per week, thirty-six weeks each year.

**Related Subjects:** Students may be required to take additional courses in English 211, 212, 213, Business Law, Real Estate, Architectural Drawing, Mathematics, Estimating, Carpentry (framing, making and placing door and window frames,

scaffolding; rough carpentry, depending upon the individual experience and training of the student, and recommendation of the faculty).

### COURSES

#### First Year

**411. Bricklaying.** Classification of materials, constructing piers and pillows, common bond walls, and structural bonds. Credit 10(0-20).

**412. Bricklaying.** Construction of arches and walls of different bonds. Common bond, 90° corners, Flemish and English bond corners. Sills for doors and windows, setting of frames and flue construction. Credit 10(0-20).

**413. Bricklaying.** Construction of buildings, blueprint reading and scaffold construction. Credit 10(0-20).

#### Second Year

**421. Tile and Stone Construction.** Hollow tile walls, hollow brick and stone piers, pilasters with battered sides and structural bond. Credit 10(0-20).

**422. Tile and Stone Construction.** Construction of segmental arches, semi-circular, and flat arches. Credit 10(0-20).

**423. Tile and Stone Construction.** Laying off buildings. Pattern bond walls mantels and chimney construction of brick or stone, irregular corners and fireplaces.

#### Third Year

**431. Plastering and Cement Work.** Study and use of tools, putting up lathes, first coat and plaster work. Credit 10(0-20).

**432. Plastering and Cement Work.** Concrete mixing, outside construction of walks and piers. Finish plaster coats, paving. Credit 10(0-20).

**433. Plastering and Concrete Work.** Over plaster construction, cement to walk construction, laying of foundation and piers. Credit 10(0-20).

## SHOE REPAIRING AND LEATHER WORK

**Training Objectives:** To give the student a practical knowledge of the subject matter as well as the necessary training in the related subjects to permit both the operation and maintenance of a shoe repairing and leather work shop, and as skilled workers in the trade.

**Length of the Course:** Two years of nine months each.

**Time in Shop:** A minimum of 20 hours per week for 36 weeks each year.

Students may be required to take additional courses, such as English, business and mathematics, etc., depending upon the individual experience and ability of each student and the recommendation of the faculty.

**411-SR. Threads and Hand Tools.** The study of threads, breaking threads, making waxed ends and twisting bristles on ends. Making various stitches used in hand sewing. The names, care and use of hand tools, sharpening knives and other hand tools.

**412-SR. Construction.** The methods of fastening the parts of shoes together. The construction of shoes is then studied to enable one to make the proper repairs. Tempering and preparing leather for soles. Cutting off old soles, skiving shanks and preparing shoes for half soles and heels.

**413-SR. Processing.** Ink, waxes, dyes, cement and nails are studied. Cutting sole leather to save. Fitting soles and heels for nailing. Putting lifts on wood heels. Inking, burnishing and finishing shoes on power machine. The care, operation and use of the patching machine is studied. Special attention is given to rip sewing and neat upper patching.

**421-SR. Bench Work.** All students having satisfactorily completed their first-year course in shoe-repairing will begin their second-year course in shoe-repairing with a brief review of the first year's work. Fitting half soles and heels on men's welted shoes. Putting top lifts and half soles on women's welted shoes. Putting new bottoms on men's and

women's shoes. Care and use of the buffer and burnishing wheels of finishing machines. Sewing of welts and cutting of inner soles.

**422-SR. Machine Operation.** Attaching wood heels on women's shoes. Study and operation of the sole cementing process. Care and operation of the edge trimmer and setter. Sharpening edge cutters. Manipulation and care of the power stitcher. Stitching soles on curved and straight needle stitchers.

**423-SR. Finishing and Shop Management.** Problems pertaining to high-class repair work. Changing suede shoes to glazed finish. Dyeing shoes pastel shades and the reglazed process of changing colors. Problems and methods of buying materials. The operation and business methods of the modern commercial shop.

## CARPENTRY

**Training Objectives:** This course aims to develop in the student the knowledge and skills necessary for practical work in carpentry. Related technical knowledge, English, mathematics and drafting are also included.

**Length of Course:** Three years of nine months each.

**Amount of Time in the Shop Per Year:** Twenty-five hours per week for thirty-six weeks. Total of 900 hours.

### First Year

**411. Benchwork.** This course consists of the study and practice of the fundamental operations in woodworking. Emphasis is placed upon the care and use of the most common woodworking tools.

**412. Benchwork.** Projects involving the various types of joints used by the carpenter are selected. Also the proper care and use of carpentry tools is stressed.

**413. Building Repair.** A certain amount of repair work is required. Only such repair work is selected as will give the student a fundamental understanding and appreciation of the principles of building construction.

### Second Year

**421. House Framing.** Intensive study will be made of the framing square and its special uses to the carpenter. Methods of placing sills, type of girders, placing and bracing studs will be studied.

**422. House Framing.** Practical work in door and window framing will be given. The various types of roofs will be constructed in miniature. Application of the steel square to roof construction will be emphasized.

**423. House Framing.** This course involves study of western or platform construction, balloon and braced frame construction, the making and placing door and window frames, covering floors, insulating materials, inferior trim selecting and installing hardware.

### Third Year

**431-C. Stair Building.** Jobs involving the laying out, cutting and placing of straight run stringers, platform flights, dog leg flights, treads, riser, newels, skirting boards, rails, balusters, and forms for concrete work.

**432-C. Roof Construction.** Jobs involving the cutting, placing and nailing of common, jack, valleyed hip rafters by the use of the steel square.

**433-C. Blueprint Reading and Estimating.** Principles of orthographic projection. Drawing of plans and details of buildings. Estimating quantities.

## CABINET MAKING AND UPHOLSTERING

**Training Objective:** To develop skilled workers in the manufacturing and repairing of furniture and cabinets. English, mathematics and drafting are required according to the needs of the students.

**Length of Course:** Three years of nine months each.

**Amount of Time in the Shop Per Year:** Twenty-five hours per week for thirty-six weeks. Total of 900 hours.

### First Year

**411. Care and Use of Tools.** This course includes studying all common woodworking tools, sharpening cutting tools—grinding and whetting plane bits and chisels, filing auger bits, and sharpening saws. Projects involving the fundamental principles of joinery are provided. Credit 10(0-20).

**412. Elementary Joinery.** The student works on projects involving joinery with a view of gaining a high degree of dexterity. Square and circular table tops are built up with the use of glue. The work is performed mostly by hand. Credit 10(0-20).

**413. Advanced Joinery.** Much practice is given the student in the construction of projects involving mortise and tenon joints and dove tail joints. Projects such as tables, stands, cabinets, and chests give the students an opportunity to make practical application of joinery and at the same time to gain useful skills. Credit 10(0-20).

### Second Year

**421. Wood Turning.** Care and use of woodworking machinery. Construction of a few simple projects involving spindle turning. Emphasis is placed on gaining facility with the turning tools and in duplicating pieces. Credit 10(0-20).

**422. Wood Turning.** Additional practice in spindle turning. Practice in face plate turning and in taper turning. Repairing broken table and chair legs so as to get experience in duplicating parts. Credit 10(0-20).

**423. Wood Finishing.** Filling, staining, waxing, varnishing, and enameling; refinishing of furniture. Credit 10(0-20).

### Third Year

**431. Upholstering.** Projects involving the various types of caning, seat weaving and upholstery without springs. Credit 10(0-20).

**432. Upholstering.** Upholstering frame structures, springing up, methods of fastening webbing, stuffings, coverings; the

use of gimp, nails, springs, hard-edge upholstery, and spring-edge upholstery. Credit 10(0-20).

**433. Cabinet Making and Upholstering.** The development of a comprehensive project involving cabinet work, finishing, and upholstering. This project should involve most of the fundamentals of cabinet making and upholstery. Credit 10(0-20).

### LAUNDRY MANAGEMENT

A course has been outlined and made available for those who are interested in receiving training in laundry management.

### PLUMBING AND STEAMFITTING

**Objectives:** This course is designed to prepare skilled mechanics in the field of plumbing and steamfitting. In addition to courses listed, the department reserves the right to require trainees to spend at least one summer on grounds for practical work, unless they can furnish reports from a responsible person as to their experience.

**Length of Course:** Three years of nine months each depending upon the student's experience and ability.

**Amount of Time in Shops:** 20 hours a week, 3 weeks per year.

**Related Subjects:** In order to develop a high-grade plumber, trainees are required to take subjects in related fields, such as mathematics, physics, chemistry, drawing, estimating, English composition, and business.

### Shop Courses

**411. Care and Use of Tools:** History of Plumbing: Duties and responsibilities of a plumber. Cutting, threading, reaming, and simple fittings. Study of plumbing material. Credit 10(0-20).

**412. Drainage and Vent Pipe Installations:** Drainage pipe arrangements. Supports and connections between pipes. Sewage disposal (field trips). Prerequisite Pl. 411. Credit 10(0-20).

**413. Traps in Drainage Systems.** Installation of traps and branch connections. Minor repairs. Prerequisite Pl. 412. Credit 10(0-20).

### Second Year

**421. Plumbing laws and regulation.** Wiping joint, soldering and lead work. Blue print reading. Prerequisite Pl. 413. Credit 10(0-20).

**422. Water Supply.** Cold and hot water. Water treatment method and purification (field trips). Prerequisite Pl. 421. Credit 10(0-20).

**423. Estimating and installation.** This course consists of determining the cost of labor and materials for various installations. Prerequisite Pl. 422. Credit 10(0-20).

### Third Year

**431. Steam and Hot Water.** The various heating systems. Tools and equipment used in steam fitting. Sheets metal work. Mechanical equipment of buildings. Prerequisite Pl. 423. Credit 10(0-20).

**432. Welding and Brazing.** Acetylene and electric welding in pipe work. Prerequisite Pl. 431. Credit 10(0-20).

**433. Copper Tubing and Fittings.** Study and use of copper fittings. Soldering and lead work. Prerequisite 432. Credit 10(0-20).

## CERTIFICATE IN SECRETARIAL SCIENCE

Students interested in the commercial field either as secretaries or teachers are urged to complete the four-year course and graduate with a degree. In cases where this cannot be done they may complete a one-year course in this field by qualifying for the duties of the stenographer-typist.

**SUGGESTED PROGRAM FOR SECRETARIES  
AND STENOGRAPHERS**

**One Year Course**

|                               | <i>Fall</i> | <i>Winter</i> | <i>Spring</i> |
|-------------------------------|-------------|---------------|---------------|
| Eng. 211, 212, 213 .....      | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| B. A. 332 .....               | .....       | 5(5-0)        | .....         |
| Math. 315 .....               | 5(5-0)      | .....         | .....         |
| Sec. Sc. 311, 312, 313 .....  | 5(0-10)     | 5(0-10)       | 5(0-10)       |
| Special Orientation Ed. ..... | 1(1-0)      | 1(1-0)        | 1(1-0)        |
| Sec. Sc. 314, 315, 316 .....  | 5(5-0)      | 5(5-0)        | 5(5-0)        |
| Sec. Sc. 332 .....            | .....       | .....         | 5(5-0)        |
|                               | 21          | 21            | 21            |

This course is carefully planned for the purpose of training prospective candidates for various stenographic, typing, and clerical positions. Under immediate supervision students are trained to do simple routine work requiring care and accuracy in detail. Special attention will be given to instruction in preparation for Civil Service examinations.

**311. Typewriting.** The beginning course covers a working knowledge of the use of all parts of the typewriter, a thorough command of the keyboard by means of the touch system, rhythmic drills and practice in spelling and division of words. Twenty-five words per minute should be obtained. Credit 5(0-10).

**312. Typewriting.** This course is concerned with drills, letter writing, drill placement, elimination of errors, accuracy and increasing speed to thirty-five words per minute. Prerequisite: 311. Credit 5(0-10).

**313. Typewriting.** Advanced and technical typewriting is emphasized by stressing stencil cutting, report making, document making, document writing, thesis and copy work. By stressing accuracy and through speed drills a speed of sixty-five words per minute should be obtained. Prerequisite: 312. Credit 5(0-10).

**314. Shorthand.** This course includes a study of word building and the general principles outlined in the Gregg Shorthand manual and speed studies. The first five lessons are thoroughly mastered during this quarter. Credit 5(5-0).

**315. Shorthand.** This course is a continuation of 314 and with added emphasis on transcription of simple letters and documents. Prerequisite: 314. Credit 5(5-0).

**316. Shorthand.** The principles are included early in this course and emphasis is placed on difficult dictation, speed test and reporting speeches. Prerequisite: 315. Credit 5(5-0).

**317. Typewriting.** The typewriting course covers a working knowledge of the use of all parts of the typewriter, a thorough command of the keyboard by means of the touch system, rhythmic drills, practice in writing words, etc. Credit 2.5(0-5).

**318. Typewriting.** This course is concerned with tests and drills for speed and accuracy in the transcription of easy material from printed matter and shorthand notes. Prerequisite: 317. Credit 2.5(0-5).

**319. Typewriting.** Technical typewriting is emphasized in this course by allowing the student to spend most of his time on tabulation, stencil cutting, report making and other practical duties. Prerequisite: 318. Credit 2.5(0-5).

**321a, 321b. Office Training.** Students will be required to do practice work in the offices and plants of the College and in and around Greensboro for a period of 13 hours for one quarter. A study is also made of the executive work connected with offices of many types. Two hours each week are devoted to discussion of the various problems found in these offices. Prerequisite: Secretarial Science 323. Credit 8(2-13). Credit, lecture alone, 2(2-0). Laboratory alone, 6(0-13).

**322. Advanced Stenography.** Advanced stenography is a view of principle and practices of shorthand and typewriting for the purpose of developing speed. Emphasis is put on the details of report making, taking dictation from speakers and other specialized fields of shorthand and typewriting. Open to all persons who have had Gregg shorthand. Prerequisite: Sec. Sc. 314, 315, 316, 317. Credit 5(5-0).

**323. Secretarial Studies.** This course deals with the qualification, duties, responsibilities and work of a secretary. The other points considered are: Managing callers, handling correspondence, locating sources of information, making appointments, and other routine and special duties in systematizing the office. Prerequisite: Secretarial Science 314, 315, 317, 318. Credit 6(2-8).

**324. Office Appliances.** The purpose of the course is to give the student a general working knowledge of the leading office machinery and equipment. Students will be instructed in the use of adding, calculating, duplicating, name and data writing, billing, miscellaneous labor-saving and bookkeeping machines. This course can be given any quarter at the discretion of the instructor. Prerequisite: Sec. Sc. 317. Credit 1.5(0-3).

### TAILORING

**Objectives:** This course in tailoring covers three years of thorough training in making new garments, such as trousers, vsets, coat and overcoats. The variety of making new garments, repairing altering, cleaning and pressing permits arranging out the course of study which equips a student for such work as is met in commercial life.

**Length of Course:** Three years of nine months each depending upon the student's experience and ability.

**Amount of Time in the Shop:** A minimum of 20 hours per week for 36 weeks each year is required.

**Related Subjects:** Students may be required to take additional courses such as English, business, freehand drawing and mathematics depending upon the individual experience and the ability of the student and the recommendation of the faculty.

#### The Course of Study Follows:

##### First Year

**411-T. Care and Use of Tools.** Care of shop and tools. Position on tailor's bench. Practice in use of needle, thimble, and the fundamental stitches which are essential to hand

sewing. Students are required to make at least nine different stitches to be placed in a scrapbook for future references. They are required to make various types and sizes of pockets. Each student must make a work apron and do various types of piece work *by hand*. Practice in machine sewing is taught.

**412-T. Introduction to Trouser Making.** Studying and classifying different types of pockets, such as piped pockets, side pockets, watch pockets and flap pockets. The top pockets, the half top pocket, and the quarter top are also studied in order to meet the demands of prevailing pocket style. Spacing and placing hip and side pockets. The proper methods of constructing and making trousers.

**413-T. Trousers Continued.** Joining and finishing and finishing uniform trousers, civilian trousers and overalls.

### Second Year

**421-T. Trousers Continued.** Review of previous work. The sizes and length of trousers to be studied. The correct method of sewing on buttons, felling certain linings, making hemmed and cuff bottoms; shaping and pressing.

**422-T. Vest Making.** Studying the various styles and types of vest pockets. Studying materials. Correct method of making pockets, studying the different types of facing and fronts; making backs, making straps, padding and shaping fronts, adjusting edge stay tape, joining backs and fronts, spacing buttonholes, sewing on buttons.

**423-T. Working from Drafts.** Review work. Making trousers and vests from draft, studying the styles of all garments previously made, comparing ancient and modern styles. The correct method of finishing past work in the proper manner is to be practiced.

### Third Year

**431-T. Coats and Overcoats.** Review of previous work. Coat and overcoat making. Studying changes that affect work in citizen's garment making.

**432-T. Materials and Colors.** Work on ordinary citizen's garment continued. Studying grades of material, estimate cost and quality of materials: working from drafts. Drafting trousers. Study of harmony in colors, drapery in garments.

**433-T. Measuring, Drafting and Cutting.** Measuring, drafting and cutting the garment studied. Students are required to make a suit to show proficiency. Study of current trade trends during the year.

### TAILORING

**Tailoring. T-311. Fundamental Stitching.** The purpose of this course is to give students a thorough knowledge of the needle trade. Care and use of tools. Practice in use of needle and thimble. Study and application of the nine different stitches which covers constant practice from *Unit 1, Job 1, to Unit 9, Job 9*. Credit 3(0-6).

**Tailoring. T-312.** The course is continued. Classifying materials. Practice in making stitches and pockets of various sizes and types. Backstitching as a substitute for machine stitch is emphasized. Prerequisite 311. Credit 3(0-6).

**Tailoring. T-313.** Review of previous work. Study and classification of materials and colors. Making various types of pockets for trousers, vests and coats. Spacing and matching pockets. Practice in machine sewing is taught. Prerequisite 312. Credit 3(0-6).

### ELECTIVE VOCATIONAL COURSES

These courses are designed for those students pursuing the regular college courses, and yet desiring some training in vocational fields. The students are given thorough drilling and are required to attain a working knowledge of the subject matter. The courses are offered on the college level and regular college credit is allowed.

**311. Auto Mechanics.** Construction and operation of power system. Fuel system, and cooling system. Lubrication, washing and polishing. Repair of tires. Credit 3(0-6).

**312. Auto Mechanics.** Study of ignition system, wiring and lighting system, batteries and their care, stater and generators. Credit 3(0-6).

**313. Auto Mechanics.** Minor repairs to safety devices. Brake adjustments during instruction. Credit 3(0-6).

**311. Cabinet Making.** Care and use of hand tools, wood turning, pattern making, or work to suit individual interest. Credit 3(0-6).

**312. Cabinet Making.** Care and use of power tools. Built-in cabinet. Small projects as desk, bookcase, or useful projects for the home. Credit 3(0-6).

**313. Cabinet Making.** Inside trim. Varieties and characteristics of timber used in projects. Applying hardware, application of stain, varnish, shellac and enamel. Credit 3(0-6).

**314. Cabinet Making.** General building and repair work in furniture and cabinet construction. Prerequisite I. A. 323. Credit 3(0-6).

**311. Carpentry.** Study and use of hand tools. Types of joints used in construction. General framing and bracing. Credit 3(0-6).

**312. Carpentry.** Blueprint reading and estimating of quantities. General construction of small projects of roof covering. Credit 3(0-6).

**313. Carpentry.** Stair building. General roof construction, flooring. Experience on practical building. Credit 3(0-6).

**314. Carpentry.** General building and repair work in carpentry. Prerequisite: I. A. 323 or the equivalent. Credit 2(0-4). Each quarter.

**M.E. 328, 329, 330. Machine Shop Practice.** See wrote up under Mechanical Engineering. Credit 2(0-4). Each quarter.

**M.E. 311, 312, 314. Mechanical Drawing.** See write-up under Mechanical engineering courses. Credit 3(0-6).

**311. Masonry.** Types of brick and their use in construction. Mortar mixing thickness of joints, tools and practice work. Credit 3(0-6).

**312. Masonry.** Study of mortars, bonds, joints, pointing up. Practice work. Credit 3(0-6).

**313. Masonry.** Estimating, arches, lintels, chimneys and fire-places. Practical jobs. Credit 3(0-6).

**331. Masonry. Plastering.** Study and use of tools, putting on laths, first and second work. Experience. Credit 3(0-6).

**332. Masonry.** Cement finishing. Study and use of tools marking and grading. Experience.

**333. Masonry.** Concrete work. Mixing of fine and coarse aggregate effects of water ratio. Placing in forms. Form bracing. Study of strength of different mixes. Credit 3(0-6).

**411. Plumbing.** Care and use of tools: History of plumbing: Duties and responsibilities of a plumber. Cutting, threading, reaming, and simple fittings. Study of plumbing material. Credit 3(0-6).

**412. Plumbing.** Drainage and vent pipe installation: Drainage pipe arrangements. Supports and connections between pipes. Sewage disposal. Prerequisite Pl. 411. Credit 3(0-6).

**413. Plumbing.** Installation of traps and branch connections. Minor repairs. Prerequisite Pl. 412. Credit 3(0-6).

**311. Shoe Repairing.** The study of threads, making waxed ends and twisting bristles on ends. Stitches used in hand sewing. Care and use of hand tools for leather work. Credit 3(0-6).

**312. Shoe Repairing.** Construction. Methods of fastening parts of shoes together. Tempering and preparing leather for soles. Preparing shoes for half soles and heels. Ink, dyes, cement and nails are studied. Bench work. Credit 3(0-6).

**313. Shoe Repairing.** Machine operation. Care and use of power stitcher. Cement process. Sewing of welts and cutting. Curved and straight needle stitchers. Finishing. Changing of color. Credit 3(0-6).

**317, 318, 319. Secretarial Science.** See typewriting under Secretarial Science.

**311. Tailoring.** Care and use of tools. Practice in use of needle and thimble. Study and application of stitcher to different stitches. Credit 3(0-6).

**312. Tailoring.** Study and classification of material. Practice in making pockets, buttonholes and backstitching. Machine sewing. Credit 3(0-6).

**313. Tailoring.** Material and colors. Matching for color. Relining of coat and pockets. Pressing. Credit 3(0-6).

**311. Welding. Oxy-Acetylene Welding.** The purpose of this course is to give students a knowledge and understanding of the welding process and its possibilities. A knowledge of the limitation of the process, of the apparatus used, of the common metals, their composition, their properties and methods of identification. Practice work. Credit 3(0-6).

**312. Welding.** Continuation of 311 with practice in more difficult welds.

**313. Welding. Electric Arc Welding.** A study of the different types of metals and welding rods to be used with steel, cast iron, malleable iron and more common metals. Skill in handling the welding machine as applied to practical jobs. Credit 3(0-6).

## SHORT COURSES IN VOCATIONAL AGRICULTURE

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### AGRICULTURAL BACTERIOLOGY

**Farm Bacteriology.** What bacteria are, how they live and grow, their effect on the soil, and soil fertility; their relation to water, water supply and sewage disposal; their effects on milk and its products and the transmissible disease of livestock are parts of the course.

### AGRICULTURAL CHEMISTRY

**Farm Chemistry.** This everyday chemistry about the farm plants and animals includes the following: Plant growth in relation to soil and air, the chemistry of digestion, mineral feeds, and mineral needs of dairy cows, protein and vitamin requirements of animals. The chemistry of commercial fertilizer and spray materials are also explained.

### AGRICULTURAL ECONOMICS

**Farm Management.** To show how various farm operations may be correlated successfully and economically. The location and the size of the farm; the crops and livestock best suited to it; the layout of the farm; the capital and equipment for the various types of farming.

**Marketing Farm Products.** A study of the necessary marketing services, agencies and methods. The relationship between the economical production, quality products, and a better rural social life is pointed out.

### AGRICULTURAL ENGINEERING

**Farm Machinery.** Farm implements such as the plow, mower, binder, corn planter, cultivator are studied and worked with to give the student a good understanding of the structure and operation of the different types.

**Plant Diseases.** The symptoms of the common and more important plant diseases of North Carolina field crops, and grains, fruits, potatoes. Controls are considered.

**Farm Forestry.** The identification of trees, application of trees, and forest value, wood utilization, reforestation and the establishment and care of the farm woodlot.

### **ECONOMIC ENTOMOLOGY**

**Farm Insects and Control.** How to know and treat the more important insect pests of farm, garden and orchard crops.

### **BUSINESS ENGLISH**

**Business English.** The writing of letters, minutes of meeting reports, communications and addresses for farm organizations will be included.

### **HORTICULTURE**

**Farm Gardening.** This course considers the study of the best varieties of garden crops; planting dates for North Carolina garden crops, cold frames will be considered.

**Horticultural Practice.** A course in the handling and pruning, spraying of farm fruits.

**Home Ground Improvement.** Study of plants best adapted to home ground improvement.

### **POULTRY HUSBANDRY**

**Farm Poultry.** Judging poultry for standard bred qualities, culling and judging hens for egg production, sanitation candling, grading and packing market eggs with some reference to poultry sanitation.

**Farm Machines and Structures.** Actual work and study of leveling, subdivisions of land, water, water supply, sewage disposal, plumbing, heating, ventilation, concrete construction, thread cutting, soldering and rope work.

**Farm Power,** Practical work in adjusting and running the gas engine, and in locating and remedying common trouble.

### **AGRONOMY**

**Soil Management.** The soil, its origin and relation to plants and animals; conditions affecting plant growth; plant food element and crop needs. Importance of water, and tilth in

agriculture, giving relation of manure and commercial fertilizers to crop yields and soil improvements are considered.

**Field and Forage Crops.** A study of varieties of field and forage crops of North Carolina are considered. A discussion of the best methods and practices in handling and improving crops are considered.

### ANIMAL HUSBANDRY

**Animal Husbandry.** A general course to give a picture of the common farm animals in their relationship to the animal kingdom. The development of our farm animals and their improvement.

**Beef Cattle and Sheep Management.** The selection of beef and sheep for breeding purposes.

**Horse and Swine Management.** The selection, care and management of the common breeds of horses and swine.

**Dairy Cattle Management.** The selection and management of good dairy animals.

**Feeds and Feeding.** Feeds and feeding with special application to farm problems.

### BOTANY

**Agricultural Botany.** A brief survey of agricultural crops with relation to families and their relative importance in agriculture.

### SOCIAL ACTIVITY

**Parliamentary Practices.** How to organize and conduct public meetings and farmers' clubs.

**Rural Society.** A study of local government group relationship and family relationship.

**Community Music.** The ways in which music may be made useful and become a vital part of the community.

### VETERINARY SCIENCE

**Livestock Sanitation.** A discussion of the common diseases of farm animals including methods of prevention and control.

## DEGREES CONFERRED MAY 24, 1943

## RANKING STUDENTS

|                          |                          |
|--------------------------|--------------------------|
| With highest honor ..... | Broadus Eugene Sawyer    |
| With highest honor ..... | Ann Lamb Davis           |
| With high honor .....    | Alvin Vincent Blount Jr. |
| With high honor .....    | Elizabeth Daughtrey      |
| With high honor .....    | Montrose Lawrence DeVane |
| With high honor .....    | Henry Steven Ellison     |
| With high honor .....    | Brennan Leon King        |
| With honor .....         | Ernest Hamilton Dark     |
| With honor .....         | James Holt Reeves, Jr.   |
| With honor .....         | James Sidney Woods       |
| With honor .....         | Charles Russell Wyrick   |

(For awards and prizes, see pages 32-34.)

## BACHELOR OF SCIENCE IN AGRICULTURE

|                           |                                      |
|---------------------------|--------------------------------------|
| Barnes, Oliver A.....     | Box 5275, Murfreesboro, N. C.        |
| Bond, Clarence L. ....    | Box 195, Sycamore St., Oxford, N. C. |
| Dacons, Thomas F. ....    | Rt. 1, Box 23, Hiddenite, N. C.      |
| Felton, Geo. W. ....      | Rt. 1, Box 28, Hertford, N. C.       |
| Forte, John E. ....       | P. O. Box 182, Marshville, N. C.     |
| Francis, Jessie A. ....   | Rt. 3, Box 81, Enfield, N. C.        |
| George, Emmett T. ....    | Rt. 1, Box 171, Whiteville, N. C.    |
| Holley, James M. ....     | 130 E. Freemason St., Edenton, N. C. |
| Jarmond, Matthew D. ....  | Rt. 3, Box 104, New Bern, N. C.      |
| Love, Clarence L. ....    | Box 2-A, Sylva, N. C.                |
| McDaniel, Emmett .....    | Rt. 2, Box 81, Dover, N. C.          |
| Sawyer, Thomas C. ....    | 1016 Walnut St., Wilmington, N. C.   |
| Selby, Seward E. ....     | Box 63, Swan Quarter, N. C.          |
| *Sessoms, Hilbert R. .... | Columbia, N. C.                      |
| Smith, William .....      | Rt. 1, Box 86, Warsaw, N. C.         |
| Webb, Burleigh .....      | Sedalia, N. C.                       |

## BACHELOR OF SCIENCE IN HOME ECONOMICS

|                           |                                           |
|---------------------------|-------------------------------------------|
| Cannady, Marie E. ....    | 247 P. R. St., Waynesboro, Va.            |
| Davis, Ann .....          | 1103 Benbow Road, Greensboro, N. C.       |
| Green, Eliz. A. ....      | 132 Gordon Ave., W. Babylon, N. Y.        |
| *Patterson, Ornetta ..... | 701 9th Ave., N. W., Roanoke, Va.         |
| *Parks, Ida .....         | 405 E. Walnut St., Wilson, N. C.          |
| Roland, Annie Ada .....   | P. O. Box 126, Aurora, N. C.              |
| Saunders, Ruth E. ....    | Brican Cottage, Ane St., Asheville, N. C. |
| Simon, Clementine .....   | 460 Salisbury St., Wadesboro, N. C.       |

\* Degrees conferred August 20, 1943.

**BACHELOR OF SCIENCE IN COMMERCIAL EDUCATION**

- \*Boone, Ruby ..... Cofield, N. C.
- \*Dupree, Ruth B. ..... 163 Loudon Ave., Roanoke, Va.
- \*Holmes, Edythe M. ..... 1322 W. Lanvale St., Baltimore, Md.
- Sowell, Rosa Lee ..... 142 S. Orange St., Newark, N. J.

**BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**

- \*Hannon, James P. ..... 232 N. Main St., Scotland Neck, N. C.
- \*Ruffin, Clementine E. ..... 1305 W. Lanvale St., Baltimore, Md.
- Shepperson, Maude L. ..... 414 Mass. Ave., Boston, Mass.

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**

- Carlos, Robt. A. ..... 1807 Campbell St., Camden, S. C.

**BACHELOR OF SCIENCE IN COMMERCIAL INDUSTRIES**

- \*Daniels, Willis ..... P. O. Box 94, LaGrange, N. C.
- Dickerson, J. Paul ..... Rt. 2, Box 64, Forest City, N. C.
- Hilliard, Marion J. ..... 18 Sykes Ave., Wadesboro, N. C.

**BACHELOR OF SCIENCE IN INDUSTRIAL ARTS**

- Clark, Earl L. ..... 1019 S. 17th St., Springfield, Ill.
- \*Jones, Clinton E. ..... Rt. 1, Box 15, Radford, Va.
- White, Geo. W. ..... Box 597, Jacksonville, N. C.

**BACHELOR OF SCIENCE IN FINE ARTS**

- \*Lucas, Benjamin ..... Box 279, High Point, N. C.
- \*Wells, Theo. ..... P. O. Box 1656, Wilmington, N. C.
- Williams, Otis A. ..... 1105 Alder St., High Point, N. C.

**BACHELOR OF SCIENCE**

- Blount, Alvin V. ..... 2504 Joint St., Raleigh, N. C.
- Boothe, Edward L. ..... 617 E. Spruce St., Goldsboro, N. C.
- \*Banner, Mary E. ..... 176 S. Georgia Ave., Concord, N. C.
- \*Barnett, Mary E. D. ..... 1267 Paxton St., Lanville, Va.
- \*Bond, John B. ..... P. O. Box 195, Lewiston, N. C.
- Boyer, Louise C. ..... 1521 McCulloh St., Baltimore, Md.
- Brannon, Geo. E. ..... 697 Shover St., E. Spencer, N. C.
- Brown, Betty L. ..... Rt. 2, Box 288, Williamston, N. C.
- \*Bunn, Arabia E. ..... 421 School St., Goldsboro, N. C.
- \*Bynum, Nannie W. ..... 404 Banks St., Greensboro, N. C.
- Campbell, Leroy ..... Rt. 3, Box 87, Statesville, N. C.
- Cecil, Eddie ..... 1614 McConnell St., Greensboro, N. C.
- Clark, Beatrice D. ..... 523 South St., Greensboro, N. C.
- Dacons, Edsel B. ..... Rt. 1, Box 23, Hiddenite, N. C.

\* Degrees conferred August 20, 1943.

|                             |                                      |
|-----------------------------|--------------------------------------|
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| Forney, Lucille W. ....     | 222 Horton St., Lenoir, N. C.        |
| *French, Robenia T. ....    | Rt. 3, Sanford, N. C.                |
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| *Hazell, Juanita Day ....   | 142 Mitchell St., Greensboro, N. C.  |
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| Massey, Joe R. ....         | 413 N. Center St., Goldsboro, N. C.  |
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| *Otey, Carolyn L. ....      | 226 N. Gilmer St., Greensboro, N. C. |
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| Peterson, E. Gwendolyn .... | 301 Winston St., Thomasville, N. C.  |
| *Penn, Eloise Logan ....    | 330 W. Bragg St., Greensboro, N. C.  |
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| *Smith, Thelma P.     | 626 Warren St., Greensboro, N. C.      |
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| *Townes, Eva A.       | 1207 Day St., High Point, N. C.        |
| *Trollinger, Leora E. | 338 E. Harden St., Graham, N. C.       |
| Turner, Bessie O.     | 710 Law St., Greensboro, N. C.         |
| Waddell, Edward       | Spindale, N. C.                        |
| Waddell, Elbert       | Spindale, N. C.                        |
| Waddell, Thelma       | 13 Eherland St., Aashevile, N. G.      |
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Gorrell St., Greensboro, N. C.

THESIS: Philosophies of Education Current Among Negro Teachers and Principals of Guilford and Davidson Counties (N. C.).

#### CERTIFICATES

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|-------------------------------------------------------------|-------------|
| Brooks, Willie Mae, 510 Montague St., Raleigh, N. C.        | Tailoring   |
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| Tillman, Vera Mae, 1907 Druid Hill Ave., Baltimore, Md.     | Sec. Sci.   |
| Truesdell, Catherine, 1927 E. Market St., Greensboro, N. C. | Sec. Sci.   |
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\* Degrees conferred August 20, 1943.

## STUDENT ROSTER

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| Daniel, Claude, M.A., 26-8th St.....                                  | Elkins, Va.             |
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| Holmes, Murray, Ed. & Sc., Rt. 1, Box 42.....                         | Maple Hill              |
| Hooper, Moultrie Jethro, Ed. & Sc., 159 Burton St.....                | Asheville               |
| Howard, Katherine, Ed. & Sc., 415 Harney St.....                      | Elizabeth City          |
| Howard, Lois Fleetwood, Ed. & Sc., 515 N. Eighth St.....              | Wilmington              |
| Hyman, Frances V., Ed. & Sc., P. O. Box 44.....                       | Hobgood                 |
| Jackson, Joanna, Ed. & Sc., Route 1, Box 64.....                      | Meherrin, Va.           |
| Jeffries, John W., Ag., Rt. 3, Box 179 .....                          | Mebane                  |
| Jenkins, Rose DeMoll, Ed. & Sc., 150 N. Dudley.....                   | Greensboro              |
| Johnson, Norman R., M.A., Route 2, Box 9.....                         | Summerfield             |
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| Patterson, Mary, Ag., P. O. Box 30.....               | Ft. Mill. S. C.    |
| Penn, Louise Anita, Ag., 418 Fayette St. ....         | Martinsville, Va.  |
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| Barber, Clarence London, M.A., Box 751.....           | Trenton        |
| Barnes, Milton Holley, Ed. & Sc., Rt. 2, Box 367..... | Rocky Mount    |
| Bass, Connie Bertha, Ed. & Sc., Rt. 1.....            | Inman, S. C.   |
| Bass, Jeanette Jenelan, Ag., Rt. 1.....               | Inman, S. C.   |
| Bell, Alice Mae, Ed. & Sc., P. O. Box 213.....        | Jackson        |
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| Black, Ruth, Ed. & Sc., McConnell Rd., .....          | Greensboro     |
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| Clay, Lois Marilyn, Ag., Box 108                     | Woodsdale          |
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| Cooper, Roy Morrison, Ed. & Sc., Rt. 1, Box 69       | Balton             |
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| Edwards, Connie Lee, M.A., Rt. 1, Box 181            | Coma               |
| Ellison, Neater, Ag., Rt. 3                          | Ayden              |
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| Greenfield, Vivian, Ag., Rt. 4, Box 260              | Mt. Olive          |
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| Lomax, Edythe Lucinthisia, Ag.                       | Iron Station       |
| Loudermilk, Mary Helen, Ag., General Delivery        | Asheboro           |
| McClennon, Roscoe, Ag.                               | Windsor            |
| McCloud, Naomi, Ed. & Sc., 692 Chestnut St.          | Greensboro         |

|                                                            |                   |
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| McDonald, Wilhelmina E., Ed. & Sc., 1214, S. Ninth St..... | Wilmington        |
| McRae, Lee B., Ed. & Sc., Rt. 1, Box 213.....              | Maxton            |
| Manuel, Carl L., M.A., Rt. 2, Box 45.....                  | Seven Springs     |
| Marks, James Harvey, Ed. & Sc., 822½ E. Market St.....     | Greensboro        |
| Martin, Maceo Conrad, A. & T. College .....                | Greensboro        |
| Massey, Mildred Va., M.A., 413 N. Center St. ....          | Goldsboro         |
| Matthews, Marion M., Ed. & Sc., 919 Washington St.....     | Danville, Va.     |
| Martin, Maceo, Ed. & Sc., 205 N. Ridge St.....             | Danville, Va.     |
| Maynard, Llydia Dorothy, M.A., 1022 S. Cedar St.....       | Greensboro        |
| Mitchell, Mamie Lee, Ag., Rt. 2 .....                      | Elm City          |
| Moore, Edna Earl, Ed. & Sc., P. O. Box 227 .....           | Clinton           |
| Moore, Goldie Mae, Ag., 142 S. Orange Ave. ....            | Newark, N. J.     |
| Murphy, Edgar David, M.A., 417 N. David St.....            | Kinston           |
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| Raleigh, Va. Alease, M.A. ....                             | Guilford College  |
| Ramseur, Veran Sumlar, Ag., Rt. 1, Box 73 .....            | Kings Mountain    |
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| Ruffin, Gladys Lucinda, Ag., Star Rt. ....                 | Windsor           |
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| Setzer, Earl C., Ed. & Sc., P. O. Box 414 .....            | Dunn              |
| Showell, Anita Ernestine, Ag. ....                         | Whaleyville, Md.  |
| Simons, Fannie Ellen, Ed. & Sc., Rt. 1, Box 258.....       | Wadesboro         |
| Simon, Jannie Ruth, Ed. & Sc., 460 Salisbury St. ....      | Wadesboro         |
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| York, Lloyd Wilson, M.A. .....                             | Southern Pines    |

## SOPHOMORE CLASS 1943-44

|                                                            |                    |
|------------------------------------------------------------|--------------------|
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| Ashton, Ada, Ag. ....                                      | Siler City         |
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| Barber, Annie, M.A., 506 W. Pantego St. ....               | Belhaven           |
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| Battle, Irene, Ag., Rt. 2 .....                            | Nashville          |
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| Brown, Lum Columbus, At., Rt. 2, Box 43 .....              | Bladenboro         |
| Brown, Sylvester, Ed. & Sc., Rt. 1, Box 102 .....          | White Oak          |
| Bryant, Theo. R., Ag., Rt. 2, Box 107 .....                | New Bern           |
| Buie, Marjorie, Ag., Rt. T, Box 19D .....                  | Lillington         |
| Bullard, Laura Judia, M.A. ....                            | Heardmont, Ga.     |
| Bullock, Hugh D., M.A., Box 129 .....                      | Creedmoor          |
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| Caple, Lacy Haywood, Ed. & Sc. ....                        | Laurinburg         |
| Carroll, Viola, M.A., Rt. 2, Box 28 .....                  | Macon              |
| Cassell, I. Louise, Ag., P. O. Box 71 .....                | Mt. Holly          |
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| Clark, Leonard Coy, M.A., Box 31 .....                     | Raeford, Va.       |
| Clemmons, Emo Calreophia, M.A., 311 Beech .....            | Greensboro         |
| Cloyd, Leodis Benjamin, M.A. ....                          | Gary, W. Va.       |
| Coleman, Sallie, Ed. & Sc., A. & T. College .....          | Greensboro         |
| Daniels, Jas. Herbert, M.A., 419 Coleman Ave. ....         | Rocky Mount        |
| Davis, Florine, Ag., 125 Poe St. ....                      | Greensboro         |
| Dean, Lucinda Avery, M.A., 144 Mitchell St. ....           | Greensboro         |
| Derr, Bessie Elizabeth, M.A., 909 Sixth St. ....           | Hickory            |
| Dickens, Evelyn B., Ed. & Sc., Rt. 1, Box 13 .....         | Whitakers          |
| Donaldson, Louis A., Ed. & Sc., 809 Sherman St. ....       | Badin              |
| Edwards, Josie Mae, Ed. & Sc., 139 5th St. ....            | Lackawanna, N. Y.  |
| Evans, Lillie Edwards, M.A., Rt. 2, Box 352 .....          | Ayden              |

|                                                                |                    |
|----------------------------------------------------------------|--------------------|
| Faucett, Elnora Elaine, M.A., 1307 Gray St. ....               | Greensboro         |
| Farrell, Chas., M.A., Rt. 2, Box 106 .....                     | Lillington         |
| Flake, Nancy Elizabeth, M.A., 426 Salisbury St. ....           | Wadesboro          |
| Ford, Lillie Mae, Ed. & Sc., Rt. 3, Box 186 .....              | Whiteville         |
| Francis, Jas. E., M.A., Box 43 .....                           | Exmore, Va.        |
| Free, Maggie Rosa, Ag., 353 N. Regan St. ....                  | Greensboro         |
| Fuller, Bernice Lorine, M.A. ....                              | Guilford           |
| Goss, Pearl, Ag., 310 Cannon St. ....                          | Spartanburg, S. C. |
| Grandy, Katrina Othella, Ag., Rt. 1, Box 332 .....             | Windsor            |
| Gray, Edw. Willie, Ag. ....                                    | Walnut Cove        |
| Greene, Oreatha, Ed. & Sc., Rt. 2, Box 53 .....                | Rocky Point        |
| Griffin, Beulah C., Ag., Rt. 1, Box 282 .....                  | Fairmont           |
| Griffin, Memory, Ag., Rt. 1, Box 282 .....                     | Fairmont           |
| Hamilton, Lois Prudence, Ed. & Sc. 913 South St. ....          | Norfolk, Va.       |
| Hargett, Frederick Alexander, M.A., 826 Lincoln St. ....       | Greensboro         |
| Hairston, Evelyn Lillian, Ed. & Sc., 725 Gillespie St. ....    | Greensboro         |
| Hairston, Benjamin George, Ed. & Sc., 604 N. Marietta St. .... | Gastonia           |
| Haith, Geo. Henry, M.A., 400 Stewart St. ....                  | Greensboro         |
| Hardy, Melvin Lenwood, Et. & Sc., 224 W. 9th St. ....          | Washington         |
| Harris, Hattie Margaret, M.A., Rt. 2 .....                     | Elm City           |
| Hester, Veondis Harris, M.A., Rt. 2, Box 63 .....              | Macon              |
| Harris, Nathaniel, Ed. & Sc., Rt. 3, Box 74 .....              | Savannah, Ga.      |
| Harris, Robt. Valgene, Ed. & Sc., Box 7 .....                  | Wilkesboro         |
| Harris, Wm. McKinley, M.A., 713 Lloyd Ave. ....                | Tarboro            |
| Hawkins, Euzelia, Ag., P. O. Box 5298 .....                    | Murfreesboro       |
| Hayes, Thomas Garrett, Jr., Ed. & Sc. ....                     | Jamestown          |
| Headen, Claudia Mildred, Ed. & Sc., P. O. Box 521 .....        | Siler City         |
| Herring, Jessie Gay, Ed. & Sc., Rt. 1, Box 157 .....           | Garland            |
| Herring, Willie, Ag., Rt. 1, Box 180 .....                     | Garland            |
| High, Earl E., Ed. & Sc., P. O. Box 52 .....                   | Zebulon            |
| Hill, Jas. Wm., M.A., 1305 Vernon St. ....                     | High Point         |
| Hinnant, Oscar H., Ed. & Sc., 130 Sloan St. ....               | Greensboro         |
| Holt, Robt. Ed. & Sc., Box 199 .....                           | Lexington          |
| Hooper, Harold Houston, Ed. & Sc., 159 Burton St. ....         | Asheville          |
| Howard, Elizabeth Jacquelain, Ed. & Sc., 1210 Dock St. ....    | Wilmington         |
| Humbles, Gladys Frances, Ag., 2460 Campbell Ave. ....          | Lynchburg, Va.     |
| Jacobs, Anna R., M.A., Rt. 2, Box 278 .....                    | Clarkton           |
| Jeffries, Avery Louise, Ag. Rt. 3, Box 27 .....                | Burlington         |
| Johnson, Aloncita L., M.A., 98 Smythe St. ....                 | Lynchburg, Va.     |
| Jones, Dorothy R., M.A., 724 W. 5th St. ....                   | Washington         |
| Jones, John W., Ed. & Sc., 901 Stantonburg St. ....            | Wilson             |
| Jones, Wendell Philemon, Ed. & Sc., P. O. Box 26 .....         | Cornelius          |
| Keyes, Rosa Beatrice, Ag., 21 Cedar St. ....                   | New Bern           |
| Lawson, Wm. A., Ed. & Sc., 1016 University St. ....            | Kinston            |
| Lewis, Walter Hugh, M.A., 19 Elm St. ....                      | New Bern           |
| Liggett, Dorothy Wingo, Ag., 1824 Davis St. ....               | Jacksonville, Fla. |
| Litaker, Sadie Mae, Ag., 77 Booker St. ....                    | Concord            |

|                                                          |                      |
|----------------------------------------------------------|----------------------|
| Little, Pearlye, Ed. & Sc., 625 Washington St. ....      | Washington           |
| Lyles, Jacqueline, Ag., 31 Grail St. ....                | Asheville            |
| Majette, Oura P., Ag. P. O. Box 5248 ....                | Murfreesboro         |
| Mayo, Carrye L., Ed. & Sc., 217 Penn. Ave. ....          | Oxford               |
| Mebane, Priscilla, M.A., 1103 ½ Bilbro St. ....          | Greensboro           |
| Mills, Maggie B., Ag., Route 1 ....                      | Watha                |
| Modesty, Ruby Mae, Ed. & Sc., 826 W. Fifth St. ....      | Dayton, Ohio         |
| Moore, Warren Harding, Ed. & Sc., Route 1 ....           | Creedmoor            |
| Morton, Willie, Ed. & Sc., Rt. 1, Box 210....            | Raleigh              |
| Murchison, Seldon, M.A., Route 2, Box 111 ....           | Lillington           |
| Murphy, Lila Jeannette, M.A., 409 Spring St. ....        | Louisburg            |
| McClinton, Ruth Mae, Ag., 715 Reid St. ....              | Greensboro           |
| McCollum, Cardoza, M.A., 63 Hudson St. ....              | Bennettsville, S. C. |
| McCoy, Hattie Vivian, Ed. & Sc., 2528 Ruffin St. ....    | Norfolk, Va.         |
| McDaniel, Ruth Nell, M.A., 1431 E. Eldorado St. ....     | Decatur, Ill.        |
| McGhee, Ruffin, Ag., 515 Chestnut St. ....               | Henderson            |
| Newsome, Isolean, Ag., Box 229 ....                      | Williamston          |
| Nixon, Louise, Ed. & Sc., 65 Kinst St. ....              | Hertford             |
| Norcum, Sara Va., Ed. & Sc., Gen. Del. ....              | Williamsburg, Va.    |
| Olds, Ernest Melvin, Ed. & Sc., 1801 Haksley St. ....    | Norfolk, Va.         |
| Olds, Isaac James, Ed. & Sc., 1801 E. Lexington St. .... | Norfolk, Va.         |
| Patterson, James, Andrew, Ag., Rt. 2, Box 111 ....       | Lillington           |
| Perry, Hilbert Harrison, Ag., Rt. 2, Box 24 ....         | Hertford             |
| Phifer, Seleka, M.A., 29 Wellington St. ....             | Boston, Mass.        |
| Pittman, Odelia, Ed. & Sc., Rt. 2, Box 13 ....           | Halifax              |
| Plummer, Mary Louise, Ed. & Sc., P. O. Box 63 ....       | Ridgeway             |
| Pope, Mary Lee, Ed. & Sc., P. O. Box 5264 ....           | Murfreesboro         |
| Posey, Rosemary, Ed. & Sc., 611 Toggart St. ....         | Greenswood, S. C.    |
| Powel, Corine, M.A., Rt. 2, Box 21 ....                  | Scotland Neck        |
| Powell, Geraldine, M.A., 1010 Maypole Ave. ....          | Norfolk, Va.         |
| Powers, Luther, Ed. & Sc., Rt. 1, Box 4 ....             | Willard              |
| Reese, James, M.A., P. O. Box 532, 3rd St. Ext. ....     | East Spencer         |
| Reid, Clarine Chesterfield, M.A., Rt. 2, Box 117 ....    | Hertford             |
| Reinhardt, William, M.A., Rt. 4.....                     | Goldsboro            |
| Renick, Carl W., M.A., 213 N. Dudley St. ....            | Greensboro           |
| Robinson, Linwood Morrison, Ag. ....                     | Southern Pines       |
| Rogers, Annie H., M.A., 15 Sassafras St. ....            | Asheville            |
| Rogers, Gwendolyn F., Ag., 15 Sassafras St. ....         | Asheville            |
| Roseboro, Irma, Ed. & Sc., Rt. 2, Box 106 ....           | Clarkton             |
| Rouson, Samuel A., M.A., P. O. Box 5127 ....             | Murfreesboro         |
| Saddler, James Daniel, Ed. & Sc., 84 ½ Clingman Ave..... | Asheville            |
| Sapp, James E., M.A., Rt. 7, Box 261 ....                | Greensboro           |
| Saunders, Wm. Auston, M.A., 133 W. 132nd St. ....        | New York, N. Y.      |
| Shoffner, Margaret Elois, Ag., 1408 S. Ashe St. ....     | Greensboro           |
| Skelton, Lottie Mae, Ag., 1214 E. Washington St. ....    | Greensboro           |
| Skelton, Wm. A., M.A., 1214 E. Washington St. ....       | Greensboro           |
| Slade, Julia, Ag., 227 Mitchell St. ....                 | E. Spencer           |

|                                                       |                          |
|-------------------------------------------------------|--------------------------|
| Smith, Sremnise, Naomi, Ed. & Sc., 160 W. 118 St.     | ....New York City        |
| Smith, Ernestine Cary, Ag., 126 N. Dudley St.         | .....Greensboro          |
| Speller, Mattie Lee, Ed. & Sc., Rt. 1, Box 229        | .....Windsor             |
| Stanback, Ernest Herman, Ed. & Sc., Rt. 1, Box 18     | .....Ruffin              |
| Stanford, Elmer, Ed. & Sc., Box 151.                  | .....Warsaw              |
| Stephen, Ernest, M.A., 214 Duke St.                   | .....Belhaven            |
| Stevens, Robt. B., 263 Dixwell Ave.                   | .....New Haven, Conn.    |
| Strayhorn, Randolph B., M.A., P. O. Box 5277          | .....Murfreesboro        |
| Stubbs, Clifford A., M.A., 914 10th St.               | .....W. Palm Beach, Fla. |
| Sutton, Minnie L., Ag. P. O. Box 393                  | .....Franklin, Va.       |
| Taylor, Marion F., M.A., 508 N. Independent St.       | .....Kinston             |
| Teal, Annie Ruth, Ed. & Sc., 354 Count St.            | .....Welch, W. Va.       |
| Thomas, Opal, Ed. & Sc., 1530 Cooper Ave.             | .....Anniston, Ala.      |
| Thomason, Isabel V., Ed. & Sc., 1018 S. Salisbury St. | .....Lexington           |
| Threet, Julius S., Ed. & Sc., 1106 23rd St.           | ....W. Palm Beach, Fla.  |
| Traynham, G. M., Ed. & Sc., 22 Madison Ave., N.E.     | .....Roanoka, Va.        |
| Traynham, M. M., Ed. & Sc., 222 Madison Ave., N.E.    | .....Roanoke, Va.        |
| Turner, Gatsie Maude, Ag., Rt. 2, Box 10              | .....Halifax             |
| Ward, Sylvester, M.A., 411 N. Adkin St.               | .....Kinston             |
| Watkins, Carrie Opalee, M.A., 1117 Broad Ave.         | .....Greensboro          |
| Watson, Frances Jean, Ed. & Sc., 416 N. 4th St.       | .....Birmingham, Ala.    |
| Watson, Odell, Ag., Rt. 3, Box 282                    | .....Rocky Mount         |
| Weaver, George, M.A., Hillsboro St.                   | .....Chapel Hill         |
| White, Artis, M.A., Rt. 1                             | .....Shelby              |
| White, Bradshaw, M.A., 119 C C Road                   | .....Ahoskie             |
| White, Wm. Hampton, M.A., 517 S. Craige St.           | .....Salisbury           |
| Williams, Lois E., Ag., Rt. 2, Box 81                 | .....Rocky Point         |
| Williams, Johnnie, M.A., 1002 Salem St.               | .....Greensboro          |
| Williams, Sarah Ellen, Ed. & Sc., 69 Holland Ave.     | .....Ardmore, Pa.        |
| Wilson, Johnsie Lee, Ag., Rt. 1                       | .....Huntersville        |
| Worthy, Grace, Ag., 121 Ridge Road                    | .....Lackawanna, N. Y.   |
| Yarborough, Frances Jean, Ag.                         | .....Louisburg           |
| Young, Annie Evelyn, M.A., 503 Duncan St.             | .....Spartanburg, S. C.  |
| Wallace, Lathan, Ag., Rt. 3, Box 186                  | .....Vanceboro           |

## FRESHMAN CLASS 1943-44

|                                                      |                        |
|------------------------------------------------------|------------------------|
| Allen, Cora Lee, M.A., 308 North St.                 | .....High Point        |
| Allen, Joseph Daniel, M.A.                           | .....Guilford College  |
| Anglin, Sabina Mae, Ed. & Sc., 201 Holt St.          | .....Martinsville, Va. |
| Arledge, Prayle R., Ed. & Sc., 912 Salem Street      | .....Greensboro        |
| Arrington, Christine, Ed. & Sc., 1000 North John St. | .....Goldsboro         |
| Arnold, Trivelene, Ag., 1311 Glenn St.               | .....Durham            |
| Artis, Charles Constantine, M.A., 1314 Payne St.     | .....Greensboro        |
| Austin, Annie R., Ed. & Sc., 440 E. Cleveland St.    | ....Spartanburg, S. C. |
| Austin, Fannie M., Ed. & Sc., 754 Charleviox St.     | ....Spartanburg, S. C. |
| Banner, Edward, Ed. & Sc., 176 S. Georgia Ave.       | .....Concord           |

|                                                            |                   |
|------------------------------------------------------------|-------------------|
| Barnes, Carrie Ann, Ed. & Sc., P. O. Box 361 .....         | Rawland           |
| Barnett, Isaac, M. A., R.F.D. 2, Box 186.....              | South Boston, Va. |
| Bass, Dorothy, M.A., R.F.D. 1 .....                        | Inman, S. C.      |
| Battle, Elaine, Ag., 307 Huffman St. ....                  | Greensboro        |
| Battle, Geraldine, Ag., 307 Huffman St. ....               | Greensboro        |
| Battle, Isaac, M.A., R.F.D. 3, Box 19 .....                | Goldsboro         |
| Bellamy, Jasper, M.A., R.F.D. 2, Box 262 .....             | Leland            |
| Beasley, Evelyn Virginia, M.A., Quail Roost Farms .....    | Rougemont         |
| Bell, Betty Barbara, Ed. & Sc., P. O. Box 213 .....        | Jackson           |
| Bigelow, Mae Elizabeth, Ag., R.F.D. 6, Box 328B .....      | Greensboro        |
| Best, Lloyd Daniel, Ed. & Sc., 232 W. Columbus St. ....    | Whiteville        |
| Blackmore, Albert P., Ed. & Sc., R.F.D. 1, Box 112 .....   | Warsaw            |
| Bluford, Eva, Ed. & Sc., 1529 W. Pike St. ....             | Philadelphia, Pa. |
| Bluford, John, Ed. & Sc., 1529 W. Pike St.....             | Philadelphia, Pa. |
| Black, Kermit C., M.A., 103 W. Hillside Ave. ....          | Durham            |
| Boone, Dorothy D., Ed. & Sc., Rt 2, Box 109 .....          | Enfield           |
| Boone, Lucy L., M.A. ....                                  | Cofield           |
| Bradshaw, Mae Fannie, Ed. & Sc., Rt. 3, Box 10 .....       | Mebane            |
| Bradley, Francis, Ed. & Sc., 1270 Eaton Road .....         | Washington, D. C. |
| Braswell, Mary, M.A., 509 Myrtle Ave. ....                 | Rocky Mount       |
| Brooks, Beulah Esther, M.A., Rt. 3 .....                   | Roxboro           |
| Brower, Hosea Carl, M.A., Rt. 2, Box 26 .....              | Hemp              |
| Brower, Samuel, Ag., Rt. 1 .....                           | Hemp              |
| Brown, William, M.A., 421 Gladdin St. ....                 | Washington        |
| Bryant, Christopher C., M.A., 307 E. Cabarrus St. ....     | Raleigh           |
| Bullock, Vertella A., Ed. & Sc. ....                       | Tarboro           |
| Burton, Helen E., M.A., 1101 S. Cedar St. ....             | Greensboro        |
| Burton, Lynette Roger, Ag., 1101 S. Cedar St. ....         | Greensboro        |
| Burton, Thelma C., Ed. & Sc., 342-B Gower St. ....         | Greenville, S. C. |
| Byrd, Alma Fairly, M.A., 1106 S. Ashe St. ....             | Greensboro        |
| Cain, Wesley, Ag., Rt. 2 .....                             | Mocksville        |
| Canty, Stephen B., M.A., 924 Second St. ....               | Birmingham, Ala.  |
| Cormack, Ether Mae, M.A., 104 Argyle St. ....              | Greensboro        |
| Channel, Gassaway Trygve, Ed. & Sc., 968 W. McCulloch St.  |                   |
|                                                            | Greensboro        |
| Christian, Esterine Rosetta, Ed. && Sc., P. O. Box 324.... | Denbigh, Va.      |
| Christmas, Simon Peter, Ed. & Sc., Rt. 5, Box 260.....     | Henderson         |
| Cobb, Alma Lea, Ag., Rt. 1, Box 7.....                     | Merry Hill        |
| Cogdell, Bertha, Ed. & Sc., Box 398 .....                  | St. Paul          |
| Cooper, Loiste, Ed. & So., Rt. 1, Box 191 .....            | Nashville         |
| Copeland, Josie Victoria, M.A., Rt. 3, Box 80 .....        | Enfield           |
| Corbett, Jesse James, M.A., 414 Atlantic Ave. ....         | Rocky Mount       |
| Corpening, Carrie Mae., Ed. & Sc., 516 Oak St. ....        | Lenoir            |
| Coward, Jather, Ed. & Sc., 29 "A" St. ....                 | New Bern          |
| Carver, Mary E., Ag., Rt. 1, Box 335 .....                 | Shannon           |
| Blount, Edith, Ed. & Sc., 413 N. Dudley St. ....           | Greensboro        |
| Childs, Helen Louise, Ag., 931 Forrester Ave. ....         | Darby, Pa.        |

|                                                                |                      |
|----------------------------------------------------------------|----------------------|
| Covington, Aris A., Ed. & Sc., Rt. 1, Box 75 .....             | Hamlet               |
| Cress, Mary F., M.A., Box 283 .....                            | Pinehurst            |
| Cromantie, Malichi, M.A., General Delivery .....               | Dublin               |
| Curry, Morrie B., M.A., 1354 4th Ave. ....                     | Hickory              |
| Dancy, Mary F., M.A., 808 N. Pryor St. ....                    | Gastonie             |
| Dave, John F., Ed. & Sc., Rt. 4, Box 382.....                  | Kinston              |
| Davis, Ruby Aretha, Ag., Rt. 2, Box 168 .....                  | Richmond, Va.        |
| Davis, Sadie P., Ag., 51 Blanton St. ....                      | Asheville            |
| Davis, Sarah C., Ag., P. O. Box 143 .....                      | Meadowview, Va.      |
| Darden, Kelly Lee, M.A., 509 Bonner's Lane .....               | Greenville           |
| Daye, Dorothy Mae, M.A., 910 Salem St. ....                    | Greensboro           |
| Derr, Catherine J., M.A., 909 Sixth St. ....                   | Hickory              |
| Douglas, Theodore, M.A., 510 Boyd St. ....                     | Greensboro           |
| Dowels, Hazel E., M.A., 119 Harrington St.....                 | Lenoir               |
| Dozer, Mary, M.A., Rt. 3, Box 30 .....                         | Salter, S. C.        |
| Draughn, Dorothy Lee, Ed. & Sc., Rt. 2 .....                   | Tarboro              |
| Drumright, Mary E., Ag., Rt. 1, Box 13 .....                   | Woodsdale            |
| Dunbar, Peason, Ag. ....                                       | Armour               |
| Dula, Mary E., M.A., 529 13th St. ....                         | Hickory              |
| Duren, Robert B., Ag. ....                                     | Kannapolis           |
| Eddy, Charles L., Ed. & Sc., 606 King St. ....                 | Bennettsville, S. C. |
| Elliott, George L., Jr., Ed. & Sc., 201 S. Wilmington Ave..... | Dunn                 |
| Elliott, Samuel C., Ed. & Sc., Rt. 4, Box 2 .....              | New Bern             |
| Fambrough, Chorsie Mae, Ag., 1513 S. Ashe St. ....             | Greensboro           |
| Fannings, Ralph, Ed. & Sc. ....                                | Greensboro           |
| Fields, Alene E., Ag., 2 North Crescent St. ....               | Asheville            |
| Fisher, Eva P., Ed. & Sc., 1024 S. Ashe St. ....               | Greensboro           |
| Fisher, George, Ed. & Sc., 770 LLexington St.....              | Norfolk, Va.         |
| Fisher, Oatten, Ed. & Sc., 1013 W. Horah St. ....              | Salisbury            |
| Forbes, Conrad, Ed. & Sc., 805 W. 25 1/2 St. ....              | Winston-Salem        |
| Forney, Rosie Lee, Ag., 222 Hortan St. ....                    | Lenoir               |
| Foster, Bettie R., M.A., P. O. Box 174 .....                   | Liberty              |
| Henry, Dolores F., Ed. & Sc., P. O. Box 315 .....              | Burgaw               |
| Herbin, Annie, M.A., Rt. 3, Box 149.....                       | Greensboro           |
| Herring, Fannie Mae, Ed. & Sc., Route 1, Box 157 .....         | Garland              |
| Foster, Eva A., Ed. & Sc., 1502 E. Market St. ....             | Greensboro           |
| Foust, Pauline, M.A. ....                                      | Greensboro           |
| Fowler, William J., Ag., Rt. 3, Box 4 .....                    | Maxton               |
| Fulcher, Edward, Ag., 40 Norwood St. ....                      | New Bern             |
| Gamble, Ella M., M.A., 349 Central Ave. ....                   | Long Branch, N. J.   |
| Garden, Doris V., Ed. & Sc., 1524 Butler St.....               | Philadelphia, Pa.    |
| Gardner, Sallye, Ed. & Sc., Rt. 3, Box 364 .....               | Greensboro           |
| Garris, Evelyn, M.A., 629 Ashe St. ....                        | Greensboro           |
| Gill, Marvian B., M.A., 956 Palmetto Ave. ....                 | Atlanta, Ga.         |
| Gilmore, Hortense, Ed. & Sc., 1313 1/2 S. Ashe St. ....        | Greensboro           |
| Graham, James D., Ed. & Sc., P. O. Box 971 .....               | Burlington           |
| Gilbert, Marion A., M.A., 1503 E. 3rd St. ....                 | Chattanooga, Tenn.   |

|                                                        |                     |
|--------------------------------------------------------|---------------------|
| Graham, Juanita, Ed. & Sc., Box 306 .....              | Pinehurst           |
| Graves, Dillard, Ed. & Sc., Rt. 1 .....                | Ruffines            |
| Graves, Etta Lou, M.A., Rt. 3, Box 73 .....            | Ramseur             |
| Greene, Edwina, M.A., 112 E. Third St. ....            | e..Lexington        |
| Green, Gleen, M.A., 1237 Dumleith Ave. ....            | Winston-Salem       |
| Griffin, Nancy Lou, M.A., P. O. Box 601 .....          | Tryon               |
| Grimes, Louise, Ed. & Sc., Rt. 1, Box 22 .....         | Tar Heel            |
| Haith, Henry Clayton, Ed. & Sc., 1119 Landreth St..... | Greensboro          |
| Harris, Clifton, Ed. & Sc., 41 Myrtle Ave. ....        | New Bern            |
| Harris, Ellis E., M.A., 2502 Elm Ave. ....             | Portsmouth, Va.     |
| Harris, Nathaniel, Ed. & Sc. ....                      | Greensboro          |
| Hathaway, Charles, M.A., Rt. 2, Box 13.....            | Edenton             |
| Haugabrook, Jophie, M.A., 804 18th Ave. ....           | Cordele, Ga.        |
| Hazell, John, M.A., 210 Marshall St. ....              | Greensboro          |
| Hemphill, Robert, Ed. & Sc., 2119 E. Fourteenth St.... | Winston-Salem       |
| Hennigan, Daniel, Ed. & Sc., 214 West Moore Ave.....   | Mooresville         |
| Hicks, Edward B., M.A., 706 S. West St. ....           | Raleigh             |
| Hicks, Mabel, Ed. & Sc. ....                           | Maysville           |
| Hodnett, Moses, M.A., 90 Branch St. ....               | Reidsville          |
| Hollingsworth, John, M.A., 245 E. Temple St. ....      | Owego, N. Y.        |
| Holt, Mary A., M.A., Rt. 5, Box 87 .....               | Greensboro          |
| Horne, Bertha Emogene, M.A., 833 Garvis St. ....       | Rocky Mt.           |
| Haywood, Rubye Evelyne, M.A., 310 Cemetery St. ....    | Thomasville         |
| Howard, Lula M., M.A., 515 N. 8th St. ....             | Wilmington          |
| Ireland, Chas. M.A., 134 N. Roberson St. ....          | Fayetteville        |
| Jackson, Nathaniel, Ed. & Sc., Rt. 2, Box 57-A .....   | New Bern            |
| Jackson, Willie Mae, Ed. & Sc., 615 Essex St.....      | Greensboro          |
| Jenkins, George, Ed. & Sc., 514 Tyson St. ....         | Greenville          |
| Jennings, Grace, Ag., Rt. 1, Box 202 .....             | Clarkton            |
| Jennings, Ora Ell, Ag., Rt. 1, Box 212 .....           | Clarkton            |
| Johnson, Henry, Ed. & Sc., 729 Woodland Ave. ....      | Winston-Salem       |
| Johnson, Lizzie, Ag., Rt. 1, Box 122 .....             | Jackson             |
| Johnson, Miriam E., M.A., 1210 Sloan St. ....          | Greensboro          |
| Jones, Hinton, M.A., Box 188 .....                     | Warrenton           |
| Jones, Jessie, Ag., Rt. 2, Box 75 .....                | Walnut Cove         |
| Jone, Lola E., Ag., Rt. 1, Box 69-A .....              | Murfreesboro        |
| Jones, Louis, M.A., 510 Marsh St. ....                 | Beaufort            |
| Jones, Minnie Louise, Ed. & Sc., Rt. 2, Box 6 .....    | Whitakers           |
| Jones, Thomas, Ed. & Sc., 18 William St. ....          | New Bern            |
| Jones, Wyalene, Ag., Davidson St. ....                 | Gastonia            |
| Jordan, Stanley, M.A., Box 106.....                    | Esmont, Va.         |
| Joyner, Annie, M.A., Rt. 1, Box 103 .....              | Turkey              |
| July, Melvin M., M.A., 204 Dunn St. ....               | Rocky Mount         |
| Kemp, Evelyn J., Ed. & Sc., 11 Brock St. ....          | New Rochelle, N. Y. |
| Lane, Crawford, B., Ag., 913 W. Gay St. ....           | Rocky Mount         |
| Lawrence, Charles, Ed. & Sc. ....                      | Greensboro          |
| Ledbetter, Hattie, Ed. & Sc., P. O. Box # .....        | Wadesboro           |

|                                                          |                    |
|----------------------------------------------------------|--------------------|
| Lee, Robert M., M.A., 146 9th Avenue .....               | Birmingham, Ala.   |
| Lester, Voila A., M.A., 384 W. Thomas St. ....           | Danville, Va.      |
| Lewis, Cicero, M.A., 815 W. Pine St. ....                | Goldsboro          |
| Lewis, Lillie Mae, M.A., 424 Boyd St. ....               | Greensboro         |
| Lindsay, Carrie, M.A., 1219 E. Market St. ....           | Greensboro         |
| Livingston, Alphonzo, M.A., 320 Dixie Broadway.....      | Winston-Salem      |
| Lutherlot, Robert M.A., P. O. Box 66 .....               | Siler City         |
| Mack, Bernice, Ed. & Sc., 1205 Locust Ave. ....          | Winston-Salem      |
| Madkins, Montrose M., Ag., 2219 Patterson St. ....       | Greensboro         |
| Marsh, Geraldine, Ag., 2116 Avenue "K",.....             | Birmingham 8, Ala. |
| Martin, Ruby D., Ed. & Sc., Rt. 2, Box 49 .....          | Pulaski, Va.       |
| Martin, Sherman G., Ed. & Sc., General Delivery .....    | Lexington          |
| Martin, Virginia, M.A., Rt. 2, Box 49 .....              | Pulaski, Va.       |
| Massenburg, Ellen, M.A., Rt. 1, Box 91 .....             | Henderson          |
| Matthews, Lena, M.A., 1135 Thurman St. ....              | Winston-Salem      |
| Mebane, Henry, Ag., Rt. 3, Box 158 .....                 | Greensboro         |
| Merriweather, Arthur, M.A., 4417-42 Place .....          | Birmingham, Ala.   |
| Merritt, William, M.A., 976 Deufort St. ....             | Norfolk, Va.       |
| Miles, E. Ardelia, Ag., 614 Lindsay St. ....             | Greensboro         |
| Miller, Carolyne, Ed. & Sc., 445 Young St. ....          | Greensboro         |
| Mitchell, Christine, Ed. & Sc., Rt. 2 .....              | Elm City           |
| Mitchell, Robert, Ed. & Sc., Box 250 .....               | Wake Forest        |
| Moore, Marible D., M.A., 253 York St. ....               | Williamsburg, Va.  |
| Mortan, Della M., Ag., 7926 Logooock Ave.....            | Philadelphia, Pa.  |
| Murray, Beatrice, M.A., Rt. 2 .....                      | Kings Mountain     |
| Murriel, Marguerite, Ed. & Sc., 106 W. Lincoln Ave. .... | Gastonia           |
| McAllister, Flora R., Ed. & Sc., Rt. 3, Box 15 .....     | Laurinburg         |
| McArthur, Helen E., Ed. & Sc., Box 402.....              | Red Springs        |
| McCoy, James, M.A., 307 Biggs St. ....                   | Laurinburg         |
| McCullough, Foster, M.A., RFD 1.....                     | Raiford            |
| McDaniel, Lartheas I., M.A., 1431 E. Eldorado St.....    | Decatur, Ill.      |
| McDaniel, Linwood A., M.A., 40 Manly St.....             | Portsmouth, Va.    |
| McEachern, Hattie, Ag., Rt. 3, Box 143 .....             | St. Paul           |
| McGimpsey, Nettie M., M.A., Rt. 2, Box 133 .....         | Morganton          |
| McIntyre, Alma, M.A., 102 Freeman St.....                | Goldsboro          |
| McKethan, Jessie M., Ag., Rt. 1, Box 44 .....            | Linden             |
| McKinnan, Alexander, Ag., Rt. 3, Box 224 .....           | St. Paul           |
| McLaughlin, Alfred D., Ed. & Sc., 405 Law St.....        | Greensboro         |
| McLean, James A., M.A., P. O. Box 403 .....              | Laurinburg         |
| McMillan, Mae Alice, M.A., Box 250 .....                 | Fairmont           |
| McNeil, Ollie P., M.A., 916 S. Main St. ....             | Louisburg          |
| Nash, John, M.A., 325 Dixie Broadway .....               | Winston-Salem      |
| Neely, Harriet J., Ag., 829 Summit St. ....              | Darby, Pa.         |
| Nelson, Mary, M.A., Rt. 2, Box 199 .....                 | Roxboro            |
| Nelson, Emory, M.A., 213 Betts St. ....                  | Danville, Va.      |
| Newkirk, Theauther, M.A., 415 McRae St. ....             | Wilmington         |
| Olive, Myrtle, M.A., Rt. 2, Box 167 .....                | Chadbourn          |

|                                                       |                    |
|-------------------------------------------------------|--------------------|
| Parker, Mearl, Ag., General Delivery .....            | Rougemont          |
| Parker, Minnie L., Ed. & Sc., Rt. 1, Box 47 .....     | Mauk, Ga.          |
| Parks, Mamie D., Ag., 417 Stewart St. ....            | Greensboro         |
| Parrish, Emma, Ag., Quail Roost Farms.....            | Rougemont          |
| Parsons, Edna, M.A., 9 Edenton Road St. ....          | Hertford           |
| Patterson, Julia M., Ed. & Sc., 413 E. Findyane ..... | Lenoir             |
| Pearson, Louise, Ag., 512 N. Patrick .....            | Alexander, Va.     |
| Peary, Martha, Ed. & Sc., 710 Reid St. ....           | Greensboro         |
| Peters, Jarnetta, Ag., Rt. 2 .....                    | Greenville, S. C.  |
| Peterson, Rebecca, M.A., 1006 S. Cedar St.....        | Greensboro         |
| Phillips, Edward L., Ed. & Sc., 2126 Shriver Ave....  | Indianapolis, Ind. |
| Phillips, Jonas, Ag., Rt. 1, Box 168 .....            | Elkin              |
| Powers, Eurnice, M.A., Rt. 1, Box 182 .....           | Wallace            |
| Qualls, Zenobia, Ag., Rt. 3, Box 150 .....            | Enfield            |
| Raines, Joseph, M.A., Rt. 6, Box 106 .....            | Winston-Salem      |
| Ramseur, Fannie N., M.A., Rt. 1, Box 73 .....         | Kings Mountain     |
| Reaves, Lucille, Ag. ....                             | Goldston           |
| Reeves, Reginald R., Ed. & Sc., 416 Beech St. ....    | Greensboro         |
| Reives, Mae F., Ed. & Sc. ....                        | Mt. Vernon Springs |
| Reynolds, Lonnie E., M.A., 107 S. Obermey St. ....    | Greensboro         |
| Rhodes, Charles, Ag. ....                             | Dallas             |
| Rice, George, Ag., 1607 McConnel St. ....             | Greensboro         |
| Richardson, Harold V., Ed. & Sc., 315 Child St. ....  | Leesburg, Fla.     |
| Rinehardt, Celia M., M.A., 242 13th St. ....          | Hickory            |
| Robbins, Alfred, Ag., Rt. 2, Box 52A .....            | Windsor            |
| Robinson, Augusta, Ag., 1505 Clarish St. ....         | Greensboro         |
| Rodgers, Haywood, Ag., Rt. 1, Box 231 .....           | Creswell           |
| Rooks, Nancy, M.A., Rt. 1, Box 349 .....              | Wilmington         |
| Savage, Imagene, M.A., Rt. 1 .....                    | Gatesville         |
| Shakespeare, L., M.A., 310 Cenvent Ave., Apt. 6D....  | New York, N. Y.    |
| Siler, Jessie, M.A. ....                              | Siler City         |
| Simmons, Thelma, Ag., Rt. 1, Box 99 .....             | Cleveland          |
| Simons, Mary, Ag., P. O. Box 105 .....                | Ahoskie            |
| Simpson, Mary, Ed. & Sc., Currie Pot Office .....     | Currie             |
| Skeeter, Ruby, M.A., Rt. 1, Box 195 .....             | Gates              |
| Smith, Altheria M., Ed. & Sc., Rt. 1, Box 86 .....    | Warsaw             |
| Smith, Annie, Ed. & Sc., Rt. 1, Box 63 .....          | Garland            |
| Smith, Elliott, Ed. & Sc., Rt. 2, Box 52 .....        | Rose Hill          |
| Smith, Geraldine, Ed. & Sc., 805 Bennett St. ....     | Greensboro         |
| Smith, Iva M., M.A., 117 Flonida Ave. ....            | Miami, Fla.        |
| Smith, Luicila, M.A., 2172 N. Main St. ....           | Danville, Va.      |
| Smith, Rosa L., M.A., Rt. 4, Box 41 .....             | Ocala, Fla.        |
| Smith, Ruth, Ed. & Sc., 312 Umstead St. ....          | Durham             |
| Smith, William, M.A., 505 E. Seventh St. ....         | Charlotte          |
| Sprueil, Catherine, M.A., Rt. 3, Box 141 .....        | Pikeville          |
| Stanford, Lloyd, Ed. & Sc., Box 151 .....             | Warsaw             |

|                                                     |                      |
|-----------------------------------------------------|----------------------|
| Steele, Mary L., M.A., 626 S. Center St.            | Statesville          |
| Steele, Roy, Ed. & Sc., 508 Marsh St.               | Greensboro           |
| Stevenson, Zollie, M.S., R. 1                       | Statesville          |
| Stevenson, Dewyatt, M.A., Rt. 1, Box 92             | Statesville          |
| Stokes, Irvin, Ed. & Sc., 400 Beech St.             | Greensboro           |
| Stokes, Uriah, M.A., 415 14th St.                   | Greenville           |
| Stroud, Catherine, Ed. & Sc., 141 Beech St.         | Greensboro           |
| Studevent, Ethel, Ed. & Sc., Rt. 1, Box 79          | Advance              |
| Summer, Carrie V., M.A., P. O. Box 431              | Enfield              |
| Summer, Frank, Ag., 1103 W. Thomas St.              | Rocky Mount          |
| Swann, Mattie, M.A., Rt. 2, Box 203                 | Jonesboro            |
| Taylor, Viola, M.A., 411 Water St.                  | Salem, Va.           |
| Thacker, Berkley, M.A., Crawford Rd., Box 9         | Rock Hill, S. C.     |
| Thompson, Wm. C., M.A., Rt. 4, Box 2-A              | Bennettsville, S. C. |
| Thomas, Clarence, Ed. & Sc., 319 W. Moore Ave.      | Mooresville          |
| Tolles, Wm. R., Ed. & Sc., 1522-24 Ave.             | Seattle, Wash.       |
| Totten, Elnora, M.A., Rt. 1, Box 111                | Gibsonville          |
| Tratt, Benjamin, M.A., 202 S. West St.              | Salisbury            |
| Tribble, Louis Earl, Ed. & Sc., 118½ 22 Ave.        | Seattle, Wash.       |
| Trice, Helen, M.A., Rt. 1, Box 309                  | Durham               |
| Troxler, Juanita, Ag., Rt. 5, Box 81                | Greensboro           |
| Turner, Thelma, M.A., 500 S. Edon St.               | Sanford              |
| Twitty, Mattie, M.A., Rt. 3, Box 66                 | Rutherfordton        |
| Waddell, Alfred, Ed. & Sc., 701 Bennett St.         | Greensboro           |
| Wade, Margaree, Ed. & Sc., 1525 Nelson St.          | Greensboro           |
| Wallace, Charles C., Ed. & Sc., 1302½ E. Market St. | Greensboro           |
| Wallace, Lonzo, Ag., Rt. 3                          | Lumberton            |
| Watlington, Ag., 201 N. Gilmer St.                  | Greensboro           |
| Watkins, Athelstine Aigness, M.A., P. O. Box 204    | Tuscumbia, Ala.      |
| Watson, Mary P., E. & Sc., P. O. Box 128            | Lewiston             |
| Weaver, Charles Anderson, Ed. & Sc., Carr St.       | Chapel Hill          |
| Whitaker, Edith, Ed. & Sc., Rt. 1, Box 22-A         | Battleboro           |
| White, Robt. Lee, Ed. & Sc., 807 E. Hill St.        | Charlotte            |
| White, Rosa Lee, Ag., 121 N. Illinois Ave.          | Atlanta City, N. J.  |
| White, Wm. Ed. & Sc., Box 152                       | Weldon               |
| Wiley, Pauline, M.A., 1919 Perkins St.              | Greensboro           |
| Willie, Mary Elizabeth, Ed. & Sc., 409 McCrae St.   | Wilmington           |
| Willie, Wm. W., Ed. & Sc., 407 Columbus Ave.        | Boston, Mass.        |
| Williams, Barbara L., M.A., 716 Gladden St.         | Washington           |
| Williams, Mary L., M.A., Box 34                     | Manetta, S. C.       |
| Williams, Charlton, M.A., 287 Edgecombe Ave.        | New York City        |
| Williams, Nettie Lee, Ed. & Sc., 1723 McDonnell Rd. | Greensboro           |
| Williams, Raymond Clifford, Ag.E., Gastonia P. O.   | Gastonia             |
| Williams, Wilhelmena H., M.A., 70 Cumberland St.    | Fayetteville         |
| Wilson, Frank W., Jr., M.A., 1403 W. 5th St.        | Greenville           |
| Wilson, Herman C., M.A., P. O. Box 113              | Carthage             |
| Wilson, Shirley Belle, Ed. & Sc., Rt. 1, Box 62-B   | Columbia, S. C.      |

|                                                    |                  |
|----------------------------------------------------|------------------|
| Withers, Sadye Lorrane, M.A., 525 Bennett St. .... | Greensboro       |
| Woodard, Isaac, Ed. & Sc., Market St. ....         | Smithfield       |
| Woods, Cornelius J., M.A., 4422 Ga. Road.....      | Birmingham, Ala. |
| Woods, Roy Lindsay, M.A., Highland P. O. ....      | Gastonia         |
| Wright, Annie Lee, Ed. & Sc., Rt. 5 .....          | Greensboro       |
| Wright, Leslie, Jr., M.A., 2206 Barber St. ....    | Raleigh          |

### SPECIAL STUDENTS, 1943-44

|                                                          |                |
|----------------------------------------------------------|----------------|
| Anderson, Marian Louise, M.A., 211 Vail St. ....         | High Point     |
| Davis, Flora Belle, Ed. & Sc., 125 Poe St.....           | Greensboro     |
| Johnson, John F., Ed. & Sc., 442 E. Washington St.....   | Greensboro     |
| Mc Clare, Ora Bernice, M.A., 1116 Candon St. ....        | Charlotte      |
| Moore, Sarah Ardell, M.A., 810 Maple St. ....            | Charlotte      |
| Norris, Catherine Ed. & Sc., Rt. 5 Box 393.....          | Greensboro     |
| Pilgrim, Lela Carroll, M.A., 714 Whitted St. ....        | Hendersonville |
| Sellars, Mary Edith, M.A., Box 752.....                  | Burlington     |
| Williams, Lillian Jeffries, Ed. & Sc., 135 Beech St..... | Greensboro     |
| Young, Wilma Elizabeth, Ag., 1705 McConnell St. ....     | Greensboro     |

### ARMY SPECIALIZED TRAINING PROGRAM—

R. O. T. C., 1943-44

|                                                             |                    |
|-------------------------------------------------------------|--------------------|
| Best, Andrew A., M.A. Rt. 1, Box 140.....                   | Kinston            |
| Bowser, Willie F. M.A. Box 465.....                         | Weldon             |
| Brooks, Samuel Taylor, M.A., 719 E. 11th St.....            | Lumberton          |
| Burney, James E., M.A. 70 Prospect Ave.....                 | Buffalo, N. Y.     |
| Dawkins, James, M.A., 675 Jay St.....                       | Spartanburg, S. C. |
| Gaskin, Hubert S., M.A., 115 W. 130 St. ....                | New York, N. Y.    |
| George, Marian C. M. A. Rt. 1, Box 75.....                  | Whiteville         |
| Henry, James G. M.A. Box 315.....                           | Burgaw             |
| Johnson, Earl A., M.A. 916 Morris St.....                   | Charleston, W. Va. |
| McClasky, Harry E., Ed. & Sc., 304 N. Gratz St., B. 75..... | Midway, Ky.        |
| Lee, William E., M.A. 126 E. Miller St.....                 | Springfield, Ill.  |
| Mason, Ralph C., M.A. 66 3rd St.....                        | Albany, N. Y.      |
| Moore, Lloyd W. M.A. Rt. 2 Box 90.....                      | Whiteville         |
| Robinson, William M., M.A. 137 W. 142 St.....               | New York, N. Y.    |
| Rohr, Leonard C. M.A., 699 13th Ave.....                    | Huntington, W. Va. |
| Sims, George, Ed. & Sc., 1420 Lambert St.....               | Memphis, Tenn.     |
| Smith, Grady T., M.A., 3715 Butternut St.....               | E. Chicago, Ind.   |

### GRADUATE STUDENTS, 1943-44

|                                                     |            |
|-----------------------------------------------------|------------|
| Alexander, Agnes J., R. Ed., 421 Bennett St.....    | Greensboro |
| Bolden, Margaret, R. Ed., A. & T. College .....     | Greensboro |
| Brown, Franklin J., Ind. Ed., 123 S. Dudley St..... | Greensboro |
| Brown, Laura D., R. Ed., 123 S. Dudley St.....      | Greensboro |
| Bynum, Nannie, R. Ed., 404 Banks St.....            | Greensboro |
| Clapp, Willie A., R. Ed., 1916 Gorrell St. ....     | Greensboro |

|                                                        |               |
|--------------------------------------------------------|---------------|
| Dyson, Lualgia P., R. Ed., 626 S. Ash St.....          | Greensboro    |
| Forney, Cornelia T. R. Ed., 105 N. Dudley St.....      | Greensboro    |
| Humphrey, Carolyn H., R. Ed., 113 N. Obermeyer St..... | Greensboro    |
| Jones, Beatrice, R. Ed., 211 N. Gilmer St. ....        | Greensboro    |
| McCollough, Catherine L., R. Ed., 220 Regan St.....    | Greensboro    |
| Manly, Mary McKay, 419 Bennett St.....                 | Greensboro    |
| Melton, Alian A., R. Ed. 441 N. Dudley St.....         | Greensboro    |
| Nelson, Lillian D., R. Ed. 713 S. Ashe St.....         | Greensboro    |
| Rice, Doris B., R. Ed., 1504 Gorrell St. ....          | Greensboro    |
| Tarpley, Lucille C., R. Ed. 1102 Gorrell St.....       | Greensboro    |
| Wilmer, Elsie, 324 Bradley Rd.....                     | Danville, Va. |
| Wise, Essie M., R. Ed., 422 A. Dudley St. ....         | Greensboro    |

## FIRST SUMMER SESSION, 1943

|                                             |                         |
|---------------------------------------------|-------------------------|
| Allen, Edw., B., 220 S. Randolph St.....    | Richmond, Va.           |
| Alston, Hertford C., Rt. 2, Box 85.....     | Sanford                 |
| Barnhill, Katie F., 542 North St.....       | Fayetteville            |
| Barber, Clarence L., Box 751.....           | Trenton                 |
| Bell, Alice M., P. O. Box 213.....          | Jackson                 |
| Boone, Ruby S.,.....                        | Cofield                 |
| Bluford, Eva V., 1529 W. Pike St.....       | Philadelphia, Pa.       |
| Bluford, John W., 1529 W. Pike St.....      | Philadelphia, Pa.       |
| Blount, Edith, 413 N. Dudley.....           | Greensboro              |
| Briggs, Gertrude A., Sauders St.....        | Maxton                  |
| Brown, Robt. L., 1540 E. 11th St.....       | Winston-Salem           |
| Bullard, Laura Julia.....                   | Heardmont, Ga.          |
| Caple, Lacy H., A. & T. College.....        | Greensboro              |
| Caple, Louise A., 411 N. Dudley.....        | Greensboro              |
| Clayton, Wilma D.....                       | Timberlake              |
| Collier, Va., 251 Central Ave.....          | Rahway, N. J.           |
| Corpening, Va. B., 516 Oak St.....          | Lenoir                  |
| Covington, Heber, 204 King St.....          | Bennettsville, S. C.    |
| Cooper, Hortisene C., 402 W. Ave.....       | Hamlet                  |
| Clapp, Willie A., 1916 Gorrell.....         | Greensboro              |
| Crowder, Jerry, 213 E. Millars St.....      | Johnson City, Tenn.     |
| Daniels, Claude P., 26 8th St.....          | Elkins, W. Va.          |
| Daniels, Willis E., P. O. Box 94.....       | La Grange               |
| Davidson, Brooks F., Rt. 1, Box 197.....    | Huntersville            |
| Devine, Mary E., A. & T. College.....       | Greensboro              |
| Doub, Hubert, 1625 N. Park Ave.....         | Philadelphia, Pa.       |
| Daniels, Hazel E., 119 Harrington St.....   | Lenoir                  |
| Dupree, Mable Jean, 163 High St., N. W..... | Roanoke, Va.            |
| Dupree, Ruth B., 163 High St., N. W.....    | Roanoke, Va.            |
| East, Sadie G., Box 186 .....               | Pilot Mt.               |
| Eaton, Willa B., 108-03 Union Hall St.....  | Jamaica 5, L. I., N. Y. |
| Epps, Richard H., 1009 Lindsay St.....      | Greensboro              |

|                                              |                    |
|----------------------------------------------|--------------------|
| Floyd, Inez C., 1016 Myrtle Crt.....         | Greensboro         |
| Forney, Mrs. Cornelia, 105 N. Dudley.....    | Greensboro         |
| Foster, Susie B., 1612 McConnell Rd.....     | Greensboro         |
| Fulp, Wm. L., 1228 W. Jackson Ave.....       | Winston-Salem      |
| Gunn, John Franklin, P. O. Box 144.....      | Burlington         |
| Grant, Ernest E.,.....                       | Liberty            |
| Gearing, Roy W.....                          | E. Chicago, Ind.   |
| Hamlin, Helen, 1105 Logan St.....            | Greensboro         |
| Hannon, Jas. P., Rt. 1, Box 138 .....        | Halifax            |
| Hairston, Geo. Ben., 604 N. Marietta St..... | Gastonias          |
| Harris, Hester V., Rt. 2, Box 63.....        | Macon              |
| Harris, Margaret H., Rt. 2.....              | Elm City           |
| Harris, Nauvata, 711 Reid St. ....           | Greensboro         |
| Harvin, Bernice R., Rt. 1, Box 102.....      | Manning, S. C.     |
| Herring, Mildred, Rt. 6, Box 101.....        | Greensboro         |
| Hopkins, Rosena .....                        | Brown Summitt      |
| Humphrey, Thos. E. 1407 Gorrell.....         | Greensboro         |
| Heard, Ga. W.....                            | Abbeville, S. C.   |
| Holt, Robt. Box 199.....                     | Lexington          |
| Holmes, Edythe, 1322 W. Lanvale St.....      | Baltimore, Md.     |
| Hill, Emaline, 119 Mitchell.....             | Greensboro         |
| Hicks, Evelyn R., Box 286.....               | Milledgeville, Ga. |
| Hill, Mary E., 1013 Benbow Rd.....           | Greensboro         |
| Hood, Henrieta R., Rt. 3.....                | Gastonias          |
| Hooper, Moultrie ., 159 Burton.....          | Asheville          |
| Howard, Sadye, 515 N. 8th St.....            | Wilmington         |
| Jackson, Wessye L., P. O. Box 631.....       | Tryon              |
| James, Vashti W., Rt. 1, Box 35R.....        | Winston-Salem      |
| Jenkins, Rose D., 150 N. Dudley.....         | Greensboro         |
| Johnson, Christine D., 1353 5th Ave.....     | Hickory            |
| Johnson, John F., 1101 E. Mkt. St.....       | Greensboro         |
| Johnson, Julia L., 5 Spencer St.....         | Martinsville, Va.  |
| Johnson, Norman R., Rt. 2, Box 9.....        | Summerfield        |
| Johnson, Richard L. H., 912 High St.....     | Greensboro         |
| Jones, Albert, Jr. 213 E. 13th St.....       | Scotland Neck      |
| Jones, Clinton E., RFD 1, Box 15.....        | Radford, Va.       |
| Lee, Kenneth John, 1407 Gorrell.....         | Greensboro         |
| Lewis, Ernest B., 5139 Findlay St.....       | Seattle, Wash.     |
| Long, Odessa, 1405 Effingham St.....         | Portsmouth, Va.    |
| Lucas, Benjamin H., Rt. 1, Box 279.....      | High Point         |
| Lyles, Rachel V., 509 Spring St.....         | Pomona             |
| Mallery, Robt. E., 28 Plymouth St.....       | Brockton, Mass.    |
| Manuel, Carl L., Rt. 2, Box 45.....          | Seven Springs      |
| Marks, Harvey, 822½ E. Market.....           | Greensboro         |
| Matthews, Marian M., 919 Wash. St.....       | Danville, Va.      |
| McCloud, Naomi, 162 South St.....            | Mt. Airy           |
| McDaniel, Ruby M., 898 Brook St.....         | Lynchburg          |

|                                                |                        |
|------------------------------------------------|------------------------|
| McGhee, Lois H., 41 Stillwater Ave.....        | Stamford, Conn.        |
| McGhee, Ruffin, 513 Chestnut St.....           | Henderson              |
| McNeill, Wm D., 707 Harrison St.....           | Laurinburg             |
| Moore, Edna E., P. O. Box 221.....             | Clinton                |
| Moore, Winston M., 48 Hill St.....             | Lanett, Ala.           |
| Norris, Catherine, 435 N. Dudley.....          | Greensboro             |
| Oldham, Veola D., 1209 Gorrell.....            | Greensboro             |
| Page, Ernesting S., 169 Adams St., N. W.....   | Washington, D. C.      |
| Parks, Ida D., 405 E. Walnut St.....           | Wilson                 |
| Patterson, Mary L., Box 344.....               | Fort Mill, S. C.       |
| Patterson, Ornetta, 701 9th Ave., N. W.....    | Roanoke, Va.           |
| Penn, Louise A., 418 Fayette St.....           | Martinsville, Va.      |
| Penn, Mamie Alberta, 1612½ McConnell Rd.....   | Greensboro             |
| Peterson, Branton, 1111 Alder St.....          | High Point             |
| Pinnix, Mae Ossie, 133½ Branch St.....         | Reidsville             |
| Pinnix, Marie Lemma, 133½ Branch St.....       | Reidsville             |
| Perry, Chas. E., State Tea. Coll.....          | Fayetteville           |
| Peace, Delilah E., 212 Penn. Ave.....          | Oxford                 |
| Posey, Rosemary, 611 Taggart St.....           | Greenwood, S. C.       |
| Powers, Luther D., Rt. 1, Box 4.....           | Willard                |
| Press, Ruby D., Box 103.....                   | Chesapeake, Va.        |
| Pits, Edna Mae, 1604 Governor St.....          | Tampa, Fla.            |
| Ramseur, Arnieze F., 1717 E. 14th St.....      | Winston-Salem 4, N. C. |
| Rankin, Geo. L., 1700 Oaklawn Ave.....         | Charlotte              |
| Reid, Clarine C., Rt. 2, Box 117.....          | Hertford               |
| Reid, Wm E., 813 Calvary St.....               | Norfolk, Va.           |
| Robinson, Foman, 11 Wells Ave., N. W.....      | Roanoke, Va.           |
| Robinson, Mary L., 408 Blackwell St.....       | Greensboro             |
| Rorie, Marvin B., 805 Winchester Ave.....      | Monroe                 |
| Ruffin, Clementine E., 1305 W. Lanvale St..... | Baltimore, Md.         |
| Saddler, Jas. D., 84½ Clingman Ave.....        | Asheville              |
| Scott, Nelda J., 122 E. Front St.....          | Florence, S. C.        |
| Sessoms, Hilbert R., 912 Country Club Dr. .... | Columbia, N. C.        |
| Setzer, Earl C., P. O. Box 414.....            | Dunn                   |
| Shivers, Julia L., 1204 N. 8th St.....         | Wilmington             |
| Simmons, Berta A., 24 Clinton St.....          | Inwood, L. I., N. Y.   |
| Simmons, Ray C., 1103 N. John St.....          | Goldsboro              |
| Simon, Jannie R., 460 Salisbury St.....        | Wadesboro              |
| Spellman, Priscella K., 502 Benbow Rd.....     | Greensboro             |
| Stanback, Ernest, Rt. 1, Box 18.....           | Ruffin                 |
| Stewart, Robt., 236 W. 64 St.....              | N. Y. C.               |
| Stratmon, David L., Box 151.....               | Southport              |
| Turner, Francis M., 1328 Highland Ave.....     | Winston-Salem          |
| Traynham, Gladys, 222 10th Ave., N. E.....     | Roanoke, Va.           |
| Traynham, Muriel, 222 10th Ave., N. E.....     | Roanoke, Va.           |
| Twitty, Mattie L., RFD 2, Box 66.....          | Rutherfordton          |
| Washington, Chas. H., 2901 8th Ave.....        | Huntington, W. Va.     |

|                                                   |                     |
|---------------------------------------------------|---------------------|
| Wells, Theo. E., 606 Cherry St.....               | Charlotte           |
| Wms, Clara B.....                                 | Wood                |
| Wms, Lucille A., 23 First St.....                 | Charleston, S. C.   |
| Wilson, Bertha.....                               | Magnolia            |
| Wood, Carolyn C.....                              | Newark, N. J.       |
| Taylor, Alma T., 915 Lincoln St.....              | Greensboro          |
| Thomas, Samuel S., 142 S. Oneida St.....          | St. Augustine, Fla. |
| Tonkins, Ada Mae, Rt. 3, Box 270.....             | Greensboro          |
| Anderson Ethel Edna, 405 Boyd St.....             | Greensboro          |
| Banner Mary Elizabeth, 176 S. Geo. Ave.....       | Concord             |
| Bell, Edna Cahterine, 202 Fayetteville St.....    | Fayetteville        |
| Belle, Lillye Mae Lynette, 332 W. Bragg St.....   | Greensboro          |
| Black, Luella Katherine, 1532 Gorrell St.....     | Greensboro          |
| Black, Victoria Geneva, 1532 Gorrell St.....      | Greensboro          |
| Blackman, Lula, Rt. 3, Laurinburg.....            | Laurinburg          |
| Bond, John Britton, P. O. Box 195.....            | Leviston            |
| Boney, Elaine Ruth, 726 Isler St.....             | Goldsboro           |
| Brevier, Flossie Luvenia, 429 Loach St.....       | Asheboro            |
| Brwon, Helen Bigelow, 211 N. Dudley St.....       | Greensboro          |
| Bunn, Arabia Ethel, 421 School St.....            | Goldsboro           |
| Burgess, A. Irene Burrell, 126 Laurel St.....     | Greensboro          |
| Byarm, Sadie Evans, 1003 Lindsay St.....          | Greensboro          |
| Brymem, Nannie G. 404 Banks St.....               | Greensboro          |
| Capel, Effie Mayo, 309 Salisbury St.....          | Wadesboro           |
| Carter, M. Louise Wallace, 222 Regan St.....      | Greensboro          |
| Chandler, Sadie D.....                            | Graham              |
| Chappelle, Leola Webber, 912 Benbow Rd.....       | Greensboro          |
| Collins, Nannie C., P. O. Box 1241.....           | Burlington          |
| Corbett, Margaret Lucy, 125 N. Dudley St.....     | Greensboro          |
| Cox, Allie Evelyn, 2414 Brook Rd.....             | Richmond, Va.       |
| Crump, Lucile, 1316 N. Highland Ave.....          | Winston-Salem       |
| Curry, Charlie Harris, 1216 E. Market St.....     | Greensboro          |
| Daniel, Nettie Kennedy, 441 Ramsey St.....        | Fayetteville        |
| Daugherty, Mae Fannie Hailey, 609 Pine St.....    | Hamlet              |
| Davis, Flora Battle, 809 Gorrell St.....          | Greensboro          |
| DeBerry Nellie Hunter, Rt. 3, Box 108.....        | Lynchburg, Va.      |
| Dillard, Eva Thelma, Rt. 1, Box 256.....          | Leaksville          |
| Dula, Evalee Carnelia, Rt. 8 Boxx 129.....        | Lenoir              |
| Dulin, Alice Eva, 933 Armstrong St.....           | Greensboro          |
| Eccles, Mattie Robinson, 700 Benbow Rd. ....      | Greensboro          |
| Erwin, Nannie Mae, 114 Jones St.....              | Morganton           |
| Exum, Sula Elizabeth, 104 Wallace St.....         | Farmville           |
| Fisher, Margaret Gray, 303 N. Independent St..... | Kinston             |
| French, Robenia Thompson, Rt. 3.....              | Sanford             |
| Galloway, Mabel F.....                            | Madison             |
| Gaston, Rose Agnes, 503 11 St.....                | Hickory             |
| Gould, William Jerry, 64 Gasport Rd.....          | Portsmouth, Va.     |

|                                                  |                   |
|--------------------------------------------------|-------------------|
| Graves, Grace Gilreath, Rt. 5 Box 186a.....      | Reidsville        |
| Hackett, Luola, Gen. Delivery.....               | Statesville       |
| Hall, Julia Trvin, 1208 Day St.....              | High Point        |
| Hannon, Helen Harris, Box 625 .....              | Tryon             |
| Harris, Augusta O. 508 Stewart St.....           | Greensboro        |
| Harris, Roberta L., 711 Reid St.....             | Greensboro        |
| Harper, Annie L. Smith, Rt. 8 Box 133.....       | Lenoir            |
| Hayes, Ethel Etta, 306 Law St.....               | Greensboro        |
| Hazel, Juanita Day, 142 Mitchell St.....         | Greensboro        |
| Hemphill, Myrtle Chaney.....                     | Old Gort          |
| Hill, Cora E. 141 Beech St.....                  | Greensboro        |
| Hopper, Edna Cleo, Rt. 1, Box 278.....           | Leaksville        |
| Houston, Lillian Tyson, 1012 Benbow Rd.....      | Greensboro        |
| Howell, Helen Sarah, 101 S. Grave St.....        | Asheville         |
| Isley, Albert E., RFD 1, Box 2421.....           | Graham            |
| Jeffries, J. W. Rt. 3, Box 179.....              | Mebane            |
| Jenkins, James Martin.....                       | Cameron           |
| Johnson, Gertrude Alexander, 506 Logan St.....   | Greensboro        |
| Johnson, Mary Wilson, 434 N. McCrary St.....     | Asheboro          |
| Jones, Elbert Ellery, 214 Montgomery St.....     | Henderson         |
| Jones Beatrice Rosalia, 211 N. Gilmer St.....    | Greensboro        |
| Jones, Martha H., 407 Orange St.....             | Shelby            |
| Jones, Nannie Chaney, 317 Beech St.....          | Greensboro        |
| Keck, Jostena Everett, P. O. Box 327.....        | Graham            |
| Keyes, Beulah Scott, 2419 Pine St.....           | Portsmouth, Va.   |
| Kress, Fannie Belle, 607 Fairview S.t.....       | High Point        |
| Lane, Alberta Bernice, 125 Mitchell St.....      | Greensboro        |
| Ledbetter, Elizabeth Mitchell, 18 Lodge St.....  | Wadesboro         |
| Loften, Ava Lee, P. O. Box 503.....              | Mebane            |
| Magwood, Lucille Marie, 66 Lee St.....           | Charleston, S. C. |
| Marable, Mary Wallace, Box 43.....               | Taylorsville      |
| McGuffin, Thelma Lorena, 2204 N. Main St.....    | South Boston, Va. |
| McKay, Rosolie, 613 Harrison St.....             | Laurinburg        |
| McKethan, Glennie Mae, 309 Beech St.....         | Greensboro        |
| McMillan, Givendalyn Ernestine, 129 Burn St..... | New Bern          |
| McMurray, Verda Mae, Rt. 3, Box 28.....          | Greensboro        |
| McRae, Ruth T. Franks, Rt. 1, Box B.....         | Asheboro          |
| Miller, Mattie Mae, 600 Sycamore, St.....        | Danville, Va.     |
| Mitchell, Mary Phillips, Box 131.....            | Graham            |
| Newby, Naomi Ruth, 500 E. St. James.....         | Tarboro           |
| Newby, Stella Gilmer, 224 Regan St.....          | Greensboro        |
| O'Neil Rovena Frazier, 415 N. Green St.....      | Morganton         |
| Palmer, Doll Lena, Rt. 1, Box 11.....            | Milton            |
| Penn, Eloise Logan, 330 W. Bragg Street.....     | Greensboro        |
| Peoples, Florence Nixon, Rt. 3.....              | Pittsboro         |
| Perry, Emma, P. O. Box 38.....                   | Fayetteville      |
| Pettway, Julia Holt.....                         | Mebane            |

|                                                     |                    |
|-----------------------------------------------------|--------------------|
| Pridgen, Lucy Wood, 900 Benbow Rd.....              | Greensboro         |
| Rankin, Olivia L., 532 High St.....                 | Greensboro         |
| Reddick, Bessie Foushee, 411 High St.....           | Greensboro         |
| Reid Cornelia B., 505 Underhill Ave.....            | High Point         |
| Reid, Lilly Mary, 307 Salisbury St.....             | Wadesboro          |
| Richmond, Mary Barnes, Rt. 2, Box 79.....           | City Grove         |
| Rivers, Marie D., 409 E. Cleveland St.....          | Spartanburg, S. C. |
| Robinson, Ruby Harris, 408 Banks St.....            | Greensboro         |
| Rush, Gretta Board, P. O. Box 912.....              | Reidsville         |
| Shaw, Lillian W., Box 274.....                      | Burgaw             |
| Sligh, Aussie Mae, 106 Pine St. ....                | Prosperity, S. C.  |
| Smith, Bobbye Leon, 904 Washington St.....          | Leesburg, Fla.     |
| Smith, Thelma Pitts, 626 Warren St.....             | Greensboro         |
| Smitherman, Sarah Juanita.....                      | Strieby            |
| Stanfield, Beatrice Bigelow, 1519 McConnell Rd..... | Greensboro         |
| Stewart, Blanche Geraldine, 33 Ballard St.....      | Wadesboro          |
| Summers, Louise Hooper, 406 Beech St.....           | Greensboro         |
| Thompson, Eula L., P. O. Box 332.....               | Fairmont           |
| Townes, Eva Anthony, 1207 Day St.....               | High Point         |
| Trollinger, Leora Everett, 338 E. Harden St.....    | Graham             |
| Walker, Alberta Beatrice, P. O. Box 313.....        | S. Boston, Va.     |
| Ward, Hannah F. Davis, Star Rt. 1, Box 4.....       | Maysville          |
| Warwick, Treddye Foster, P. O. Box 58.....          | Macon              |
| Warwick, Ruth, P. O. Box 58.....                    | Macon              |
| Watkins, Lessie Street, 725 Gillespie St.....       | Greensboro         |
| Watlington, Ava Holt, 501 Law St.....               | Greensboro         |
| Whitlock, Evelyn Virginia.....                      | Paces, Va.         |
| Whitted, Grace Moore, 321 S. Melville St.....       | Graham             |
| Williams, Maud J., 701 R. St. N. W.....             | Washington, D. C.  |
| Willie, Ada Belle.....                              | Polloksville       |
| Wilson, McDonald Malissa Estlee.....                | Cheraw, S. C.      |
| Womack, Theresa Womack, 715 Guilford Ave.....       | Greensboro         |
| Young, Kathleen Harbison, 311 W. Concord St.....    | Morganton          |

## SECOND SUMMER SESSION, 1943

|                                             |               |
|---------------------------------------------|---------------|
| Allen, Edward B.....                        | Richmond, Va. |
| Anderson, Marion L., 211 Vaie St.....       | High Point    |
| Artis, Mildred Fox, 201 Wallace St.....     | Farmville     |
| Banner, Mary E., 176 S. Ga. Ave.....        | Concord       |
| Barnett, Mary E., 1267 Paxton St.....       | Danville, Va. |
| Barret t,Commodore A., Box 495.....         | Asheboro      |
| Bell, Alice Mae, P. O. Box 213.....         | Jackson       |
| Bell, Edward N., 29 First Ave.....          | New Bern      |
| Bethea, Thomasina E., 526 Charlotte St..... | Hamlet        |
| Black, Luella K., 1532 Gorrell St.....      | Greensboro    |
| Black, Victoria G., 1532 Gorrell St.....    | Greensboro    |

|                                            |                      |
|--------------------------------------------|----------------------|
| Blount, Edith, 413 N. Dudley.....          | Greensboro           |
| Bluford, Eva V., 1529 W. Pike St.....      | Philadelphia, Pa.    |
| Bluford, John W., 1529 W. Pike St.....     | Philadelphia, Pa.    |
| Boone, Ruby S., .....                      | Cofield              |
| Bond, John B. P. O. Box 195.....           | Lewiston             |
| Brewer, Flossie, Box 12.....               | Asheboro             |
| Briggs, Gertrude A., 415 Bennett.....      | Greensboro           |
| Bright, Sarah E., 1116 Perkins St.....     | Greensboro           |
| Brown, Robert L., 1540 E. 11th St.....     | Winston-Salem        |
| Bullard, Laura J.....                      | Heardmont, Ga.       |
| Bunn, Arabia E., 421 School St.....        | Goldsboro            |
| Byarm, Sudie E., 1003 Lindsay St. ....     | Greensboro           |
| Bynum, Nannie G., 404 Banks St.....        | Greensboro           |
| Caple, Lacy H., 517 Harrison St.....       | Laurinburg           |
| Caple, Louise A., 143 N. Dudley.....       | Greensboro           |
| Chandler, Sadie D., 121 Marshall St.....   | Graham               |
| Chappelle, Leola W., 912 Benbow Rd.....    | Greensboro           |
| Clayton, Wilma D., A. & T. College.....    | Greensboro           |
| Collier, Virginia O., 251 Central Ave..... | Rahway, N. J.        |
| Collins, Nannie C., P. O. Box 1241 .....   | Burlington           |
| Corbett, Margaret L., 125 N. Dudley.....   | Greensboro           |
| Covington, Heber, 204 King St.....         | Bennettsville, S. C. |
| Crowder, Jerry, 213 E. Millard St.....     | Johnson City, Tenn.  |
| Daniels, Claude P., 26 8th St.....         | Elkins, W. Va.       |
| Davis, Flora B., 809 Gorrell .....         | Greensboro           |
| Davidson, Brooks F., Rt. 1, Box 197.....   | Huntersville         |
| DeBerry, Nellie H. Rt. 3, Box 108.....     | Lynchburg, Va.       |
| Devine, Mary E., A. & T. College.....      | Greensboor           |
| Dillard, Eva T., Rt. 1, Box 256.....       | Leaksville           |
| Doub, Hubert, 1625 Park Ave.....           | Philadelphia, Pa.    |
| Dougherty, Mae Fannie H., 609 Pine St..... | Hamlet               |
| Dupree, Ruth, 163 High St., N. W.....      | Roanoke, Va.         |
| Eaton, Willa B., 108-03 Union Hall St..... | Jamaica, L. I.       |
| East, Sadie G., P. O. Box 186.....         | Pilot Mt.            |
| Epps, Richard H., 48 Elmwood Ave.....      | Montclair, N. J.     |
| Exum, Sula E., 104 Wallace St.....         | Farmville            |
| Fleming, Sethelle, 516 Doak St.....        | Greensboro           |
| Floyd, Inez, 1016 Myrtle Ct.....           | Greensboro           |
| Foster, Susie B., 1612 McConnell Rd.....   | Greensboro           |
| French, Robenia T., Rt. 3.....             | Sanford              |
| Galloway, Mabel F.....                     | Madison              |
| Gaston, Rose A., 503 11th St.....          | Hickory              |
| Gearing, Roy W., 3630 Penn Ave.....        | E. Chicago, Ind.     |
| Gibson, Edwin A., 418 Holbrook St.....     | Danville, Va.        |
| Gilmore, Wm M., 308 S. Vanderford St.....  | Salisbury            |
| Grant, Ernest E.....                       | Liberty              |
| Graves, Grace G., Rt. 5, Box 186a.....     | Reidsville           |

|                                              |                      |
|----------------------------------------------|----------------------|
| Green, Chas. M.....                          | Bennettsville, S. C. |
| Green, Geo. W., Rt. 2, Box 351.....          | Mt. Olive            |
| Gunn, John F., P. O. Box 144.....            | Burlington           |
| Hall, Julia I., 1208 Day St.....             | High Point           |
| Hamlin, Helen Willie, 1105 Logan St.....     | Greensboro           |
| Hannon, Jas. P., Rt. 1, Box 38.....          | Halifax              |
| Hairston, Geo. B., 604 N. Marietta St.....   | Greensboro           |
| Harris, Augusta O., 508 Stewart St.....      | Greensboro           |
| Harris, Nauvata M., 711 Reid St.....         | Greensboro           |
| Harris, Robt. L., Rt. 3, Box 106.....        | Java, Va.            |
| Harris, Veodis H., Rt. 2, Box 63.....        | Macon                |
| Harvin, Bernice R., Rt. 1, Box 102.....      | Manning, S. C.       |
| Hayes, Ethel E., 306 Law St.....             | Greensboro           |
| Hayes, Suelia S., 442 N. Dudley.....         | Greensboro           |
| Hazell, Juanita Day, 142 Mitchell.....       | Greensboro           |
| Heard, Ga. W., A. & T. College.....          | Greensboro           |
| Hemphill, Myrtle C., P. O. Box 88.....       | Old Fort             |
| Herring, Mildred, Rt. 6, Box 101.....        | Greensboro           |
| Hicks, Evelyn R., Box 286.....               | Milledgeville, Ga.   |
| Hill, Cora E., 141 Beech St.....             | Greensboro           |
| Hill, Emaline E., 119 Mitchell.....          | Greensboro           |
| Hood, Henrietta R., 304 Beech.....           | Greensboro           |
| Holmes, Edythe, 1322 W. Lanvale.....         | Baltimore, Md.       |
| Holt, Robt., Box 109.....                    | Lexington            |
| Hopper, Edna C., Rt. 1.....                  | Leaksville           |
| Hooper, Moultrie J., 159 Burtuo St.....      | Asheville            |
| Houston, Lillian T., 1012 Benbow Rd.....     | Greensboro           |
| Howard, Sadye E., 515 N. 8th St.....         | Wilmington           |
| Humphrey, Thos. E., 1407 Gorrell.....        | Greensboro           |
| Isley, Alberta E., Rt. 1, Box 242.....       | Graham               |
| Jackson, Lillian G., 328 Percy.....          | Greensboro           |
| Jackson, Wessye L., P. O. Box 631.....       | Tryon                |
| James, Vashti W., Rt. 1, Box 35R.....        | Winston-Salem        |
| Jeffries, Annie D., P. O. Box 254.....       | Reidsville           |
| Jenkins, Rose D. 150 N. Dudley.....          | Greensboro           |
| Johnson, Julia L., 5 Spencer St.....         | Martinsville, Va.    |
| Johnson, John F., 662 Columbia Rd. N. W..... | Washington, D. C.    |
| Johnson, Mary W., 434 N. McCrary St.....     | Asheboro             |
| Johnson, Norman R., 311 Bennett.....         | Greensboro           |
| Johnson, Richard L. H., 912 High.....        | Greensboro           |
| Johnson, Walter T., 506 Logan St.....        | Greensboro           |
| Jones, Jr., Albert, A. & T. College.....     | Greensboro           |
| Jones, Nannie C., 317 Beech.....             | Greensboro           |
| Keck, Fostena E., P. O. Box 327.....         | Graham               |
| Keyes, Beulah S., 439 N. Dudley.....         | Greensboro           |
| Keyes, Karl M., 21 Cedar St.....             | New Bern             |
| Kress, Fannie B., 607 Fairview.....          | High Point           |

|                                                      |                   |
|------------------------------------------------------|-------------------|
| Lee, John K., 1407 Gorrell St.....                   | Greensboro        |
| Lewis, Ernest B., 5139 Findlay.....                  | Seattle, Wash.    |
| Loften, Ava L., P. O. Box 503.....                   | Mebane            |
| Long, Odessa Mae, 1405 Effingham St.....             | Portsmouth, Va.   |
| Lucas, Benjamin H., Rt. 1, Box 279.....              | High Point        |
| Lyles, Rachel V., 509 Spring St.....                 | Pomona            |
| Magwood, Lucille M., 66 Lee St.....                  | Charleston, S. C. |
| Mallery, Robt. E., 28 Plymouth St.....               | Brockton, Mass.   |
| Manuel, Carl L., Rt. 2, Box 45.....                  | Seven Springs     |
| Marks, Jas. H., 822½ E. Market.....                  | Greensboro        |
| Matthews, Marion M., 919 Wash. St.....               | Danville          |
| McCloud, Naomi, 692 Chestnut St.....                 | Greensboro        |
| McDaniel, Ruby Mae, 1612 15th St.....                | Lynchburg, Va.    |
| McGhee, Lois H., 41 Stillwater Ave.....              | Stamford, Conn.   |
| McGhee, Ruffin A., 515 Chestnut St.....              | Henderson         |
| McGuffin, Thelma L., 2204 N. Main St.....            | S. Boston, Va.    |
| McKoy, Gertrude B., 423 N. Dudley.....               | Greensboro        |
| McKethan, Glennia Mae, 309 Beech.....                | Greensboro        |
| McMillian, Gwendolyn E., 129 Burn.....               | New Bern          |
| McMurray, Verda Mae, Rt. 3, Box 212.....             | Greensboro        |
| McNeill, Wm D., 707 Harrison St.....                 | Louisburg         |
| Miller, Mittie Mae, 600 Sycamore St.....             | Danville, Va.     |
| Miller, Susie A., 2409 Albany St.....                | Brunswick, Ga.    |
| Mitchell, Mary P., Box 131.....                      | Graham            |
| Moore, Edna E., P. O. Box 221.....                   | Clinton           |
| Moore, Winston M., 48 Hill St.....                   | Lanett, Ala.      |
| Napoleon, Ella B., 2245 Gardner St.....              | Augusta, Ga.      |
| Newby, Naomi R., 900 Benbow Rd.....                  | Greensboro        |
| Newby, Stella G., 224 Regan St.....                  | Greensboro        |
| Norris, Catherine, Rt. 5, Box 393.....               | Greensboro        |
| Oldham, Veola D., 1209 Gorrell.....                  | Greensboro        |
| O'Neill, Rovena F., 415 N. Green St.....             | Morganton         |
| Page, Ernestine S., 169 Adams St., N. W.....         | Washington, D. C. |
| Palmer, Doll-Lena, RFD 1, Box 11.....                | Milton            |
| Parks, Ida D., 405 E. Walnut St.....                 | Wilson            |
| Patterson, Mary Lee, Box 344.....                    | Ft. Mill, S. C.   |
| Patterson, Ornetta W., 701 9th Ave., N. W.....       | Roanoke, Va.      |
| Penn, Louise A., 418 Fayette St.....                 | Martinsville, Va. |
| Penn, Eloise L., 330 W. Bragg.....                   | Greensboro        |
| Penn, Mamie A., 1612½ McConnell Rd.....              | Greensboro        |
| Peoples, Florence N., Rt. 3.....                     | Pittsboro         |
| Perry, Chas. E., State Teach. Coll.....              | Fayetteville      |
| Perry, Emma (Mrs.) P. O. Box 38 State Tea. Coll..... | Fayetteville      |
| Peterson, Branton, Y. M. C. A., 1059 E. Mkt. St..... | Greensboro        |
| Pettway, Julia H.....                                | Mebane            |
| Pierce, Ada G., Box 248.....                         | Evergreen, Ala.   |
| Pennix, Mae O., 133½ Branch St.....                  | Reidsville        |

|                                                       |                    |
|-------------------------------------------------------|--------------------|
| Pennix, Marie L., 133½ Branch St.....                 | Reidsville         |
| Pitts, Edna Mae, 1604 Govenor St.....                 | Tampa, Fla.        |
| Posey, Rosemary, 611 Taggart St.....                  | Greenwood, S. C.   |
| Powers, Luther D., Rt. 1, Box 4.....                  | Willard            |
| Press, Ruby D., Box 103.....                          | Chesapeake, Va.    |
| Pridgen, Lucy Wood, 622 Penn. Ave.....                | Rocky Mount        |
| Rankin, Geo. L., 1700 Oaklawn Ave.....                | Charlotte          |
| Rankin, Olivia, 532 High St.....                      | Greensboro         |
| Reid, Clarine C., Rt. 2, Box 117.....                 | Hertford           |
| Reid, Wm. E., 813 Calvert St.....                     | Norfolk, Va.       |
| Robinson, Foman A., 11 Wells Ave., N. W.....          | Roanoke, Va.       |
| Robinson, Mary L., 408 Blackwell St.....              | Waycross, Ga.      |
| Robinson, Ruby H., 408 Banks St.....                  | Greensboro         |
| Rorie, Marvin B., 805 Winchester Ave.....             | Monroe             |
| Ruffin, Clementine E., 1305 W. Lanvale St.....        | Baltimore, Md.     |
| Ross, Rosa L., 2338 Titten St.....                    | Augusta, Ga.       |
| Rush, Gretta B., Box 912.....                         | Reidsville         |
| Saddler, Jas. D., 84½ Clingman Ave.....               | Asheville          |
| Sessoms, Hilbert R.....                               | Columbia           |
| Setzer, Earl C.....                                   | Dunn               |
| Scott, Nelda J., A. & T. College.....                 | Greensboro         |
| Shivers, Julia L., 1204 8th St.....                   | Wilmington         |
| Shockly, Sears de'Pratte, 1802 McCullon St.....       | Baltimore, Md.     |
| Simon, Jannie R., 460 Salisbury St.....               | Wadesboro          |
| Simmons, Berta, A., 24 Clinton St., Inwood, L. I..... | New York           |
| Simmons, Ray C., 1103 N. John St.....                 | Goldsboro          |
| Sligh, Gussie Mae, 106 Pine St.....                   | Prosperity, S. C.  |
| Smith, Bobbye L., 904 Wash. St.....                   | Leesburg, Fla.     |
| Smith, Thelma P., 626 Warren St.....                  | Greensboro         |
| Spellman, Priscilla K., 502 Benbow Rd.....            | Greensboro         |
| Stanback, Ernest H., Rt. 1, Box 18.....               | Ruffin             |
| Stewart, Robt., 236 W. 64th St.....                   | N. Y. C.           |
| Thomas, Lucille W., P. O. Box 44.....                 | Macon              |
| Townes, Eva A., 1207 Day St.....                      | High Point         |
| Traynham, Gladys M., 222 Madison Ave., N. E.....      | Roanoke, Va.       |
| Traynham, Muriel M., 222 Madison Ave., N. E.....      | Roanoke, Va.       |
| Trollinger, Leora E., 338 E. Harden.....              | Graham             |
| Turner, Francis M., 1328 Highland Ave.....            | Winston-Salem      |
| Twitty, Mattie L., RFD 2, Box 66.....                 | Rutherfordton      |
| Warwick, Freddie F., Box 58.....                      | Macon              |
| Washington, Chas. H., 2901 8th Ave.....               | Huntington, W. Va. |
| Watkins, Lessie St., 725 Gillespie St.....            | Greensboro         |
| Whitlort, Evelyn Va.,.....                            | Paces, Va.         |
| Whitted, Grace M., 321 S. Melville St.....            | Graham             |
| Whitted, Shepard S., 739 Wash. St.....                | High Point         |
| Wms, Evelyn O., 38 Hamilton St.....                   | Asheville          |

|                                           |               |
|-------------------------------------------|---------------|
| Wms, Lucille A., A. & T. College.....     | Greensboro    |
| Wilson, Bertha L.....                     | Magnolia      |
| Womack, Theresa M., 715 Guilford Ave..... | Greensboro    |
| Wood, Carolyn Camille.....                | Newark, N. J. |

### EXTENSION, 1943-44

#### GREENSBORO CENTER (Commercial Students)

|                                                      |            |
|------------------------------------------------------|------------|
| Adams, Margaret Mae, 305 Regan Street.....           | Greensboro |
| Anderson, Mattie Rogers, 610 Watson St.....          | Greensboro |
| Anderson, Nola Byers, L. Richardson M. Hospital..... | Greensboro |
| Bowman, Bernice Bengena, 470 Cole Street.....        | Greensboro |
| Braxton, Isaac 1st Sgt., 923 Lindsay Street.....     | Greensboro |
| Brewer, Helen Marie, 1524 E. Market St.....          | Greensboro |
| Eynum, Nannie Geneva, 404 Bank St.....               | Greensboro |
| Caddell, Dorothy, 1902 Water St.....                 | Greensboro |
| Chandler, Sadie D., 121 Marshall St.....             | Graham     |
| Covington, Juliette Bradshaw, 1219 Morris St.....    | Greensboro |
| Covington, Lucile, 216 N. Gilmer St.....             | Greensboro |
| Crumpton, Eileen Rosetta, 1605 E. Market St.....     | Greensboro |
| Donnell, Mariene Clegg, 1711 Gordon St.....          | Greensboro |
| Foy, Hattie Etta, 1604 E. Market Street .....        | Greensboro |
| Gillon, Ozella, 1005 E. Bragg St.....                | Greensboro |
| Gilmer, Bessye Miller, 442 N. Dudley St.....         | Greensboro |
| Gilreah, Willie Mae, 1101 Gorrell St.....            | Greensboro |
| Griffin, Grace, 605 Booker St.....                   | Greensboro |
| Haywood, Bertha Lee, 917 West Green St.....          | High Point |
| Headen, Wilhelmina F., 514 High St.....              | Greensboro |
| Hicks, Cora Boll, 235 N. Gilmer St.....              | Greensboro |
| Hill, Cora E., 141 Beech St.....                     | Greensboro |
| Ingram, Martha Elizabeth, 2002 Gorrell St.....       | Greensboro |
| Jarrell, MaeVan Elaine, Rt. 1, Box 33.....           | Randleman  |
| Jones, Ann, 310 Beech St.....                        | Greensboro |
| Knox, Florence Waldine, 1019 East Washington St..... | High Point |
| Keck, Fostona Everett, P. O. Box 327.....            | Graham     |
| Keck, Irma Laura, 121 Luther St.....                 | Greensboro |
| Lassiter, Ruth Alice, 1208 Gorrell St.....           | Greensboro |
| Maxwell, Lual Belle, Route 5, Box 94.....            | Greensboro |
| Montague, Eva Swann, Boxx 165.....                   | Graham     |
| Moore, Josephine G., 800 E. Sycamore St.....         | Greensboro |
| Nash, Nettie Mae, 420 Boyd St.....                   | Greensboro |
| Pankey, Nell, Route 4, Box 123.....                  | Greensboro |
| Phifer, Loila Mac, 1609 Freeman Mill Rd.....         | Greensboro |
| Phifer, Virginia Luella, 1609 Freeman Mill Rd.....   | Greensboro |

|                                                   |            |
|---------------------------------------------------|------------|
| Poole, Mabel Harden, Sox 684.....                 | Graham     |
| Reid, Ida Mae, 171 Jackson St.....                | Reidsville |
| Richmond, Rosalia Wharton, 1935 E. Market St..... | Greensboro |
| Rumley, Lela Elizabeth, 321 S. Melville St.....   | Graham     |
| Sandifer, Catherine, Rt. 66, Box 106a.....        | Greensboro |
| Sharpe, Lessie I., P. O. Box 766.....             | Burlington |
| Sharpe, Robert E., 717 Ashe St.....               | Greensboro |
| Spivey, Laura Mae, 819 Baptiste St.....           | Greensboro |
| Steele, Ollie Mae, 506 Boyd St.....               | Greensboro |
| Thompson, Allie Odell, 1516 McConnell Rd.....     | Greensboro |
| Truesdell, Catherine D., 1917 E. Market St.....   | Greensboro |
| Turner, Jennie Mae, 120 N. Dudley St.....         | Greensboro |
| White, Robbie, 1301 S. Ashe St.....               | Greensboro |
| Whitted, Grace, 321 S. Melville St.....           | Graham     |
| Winnix, Inez Cora, Route 2, Box 383.....          | Greensboro |

**(Education and Sciences Students)**

|                                               |            |
|-----------------------------------------------|------------|
| Albright, John W.....                         | Burlington |
| Allen, Mary Bond, 1816 E. Market.....         | Greensboro |
| Chandler, Sadie D.....                        | Graham     |
| Glover, Mary T., 527 South St.....            | Greensboro |
| Jeffries, Elizabeth A.....                    | Greensboro |
| Keck, Fostena E.....                          | Graham     |
| Loften, Ava .....                             | Greensboro |
| Moffitt, Mattie A. 907 Lincoln St.....        | Greensboro |
| Morrow, Lottie G., 1001 Lindsay St.....       | Greensboro |
| Miller, N. P.....                             | Greensboro |
| Reeves, Ellen Boyd, 416 Beech St.....         | Greensboro |
| Richmond, Mary B.....                         | Greensboro |
| Summers, Louise H., 406 Beech St.....         | Greensboro |
| Whitmire, Dorothy .....                       | Greensboro |
| Whitted, Grace Moore, 321 S. Melville St..... | Burlington |
| Wilson, Carrie S., Box 163.....               | Graham     |
| Worth, T. R. Rt. 1.....                       | Haw River  |

## DISTRIBUTION BY COUNTIES IN NORTH CAROLINA

|                  |     |                   |    |
|------------------|-----|-------------------|----|
| Alamance .....   | 4   | Jones .....       | 2  |
| Alexander .....  | 0   | Lincoln .....     | 1  |
| Anson .....      | 5   | Lee .....         | 2  |
| Beaufort .....   | 7   | Lenoir .....      | 3  |
| Bertie .....     | 7   | Martin .....      | 1  |
| Bladen .....     | 15  | Mecklenburg ..... | 6  |
| Brunswick .....  | 1   | Montgomery .....  | 0  |
| Buncombe .....   | 9   | Moore .....       | 6  |
| Burke .....      | 1   | Nash .....        | 5  |
| Cabarrus .....   | 3   | New Hanover ..... | 7  |
| Caldwell .....   | 4   | Northampton ..... | 3  |
| Carteret .....   | 1   | Onslow .....      | 1  |
| Caswell .....    | 3   | Orange .....      | 5  |
| Catawba .....    | 7   | Polk .....        | 2  |
| Chatham .....    | 5   | Pasquotank .....  | 2  |
| Chowan .....     | 1   | Pender .....      | 8  |
| Cleveland .....  | 5   | Perquimans .....  | 3  |
| Columbus .....   | 6   | Person .....      | 4  |
| Craven .....     | 11  | Pitt .....        | 10 |
| Cumberland ..... | 4   | Randolph .....    | 3  |
| Davidson .....   | 5   | Richmond .....    | 2  |
| Davie .....      | 2   | Roberson .....    | 15 |
| Duplin .....     | 8   | Rockingham .....  | 4  |
| Durham .....     | 6   | Rowan .....       | 7  |
| Edgecombe .....  | 10  | Rutherford .....  | 1  |
| Forsythe .....   | 14  | Sampson .....     | 5  |
| Franklin .....   | 3   | Scotland .....    | 5  |
| Gaston .....     | 9   | Southampton ..... | 0  |
| Gates .....      | 1   | Stanly .....      | 1  |
| Granville .....  | 3   | Stokes .....      | 5  |
| Greene .....     | 0   | Surry .....       | 2  |
| Guilford .....   | 196 | Tyrrell .....     | 0  |
| Halifax .....    | 12  | Union .....       | 1  |
| Harnett .....    | 7   | Vance .....       | 1  |
| Henderson .....  | 1   | Wake .....        | 1  |
| Hertford .....   | 10  | Warren .....      | 4  |
| Hoke .....       | 1   | Washington .....  | 1  |
| Hyde .....       | 0   | Wayne .....       | 7  |
| Iredell .....    | 4   | Wilkes .....      | 0  |
| Jackson .....    | 0   | Wilson .....      | 5  |
| Johnston .....   | 1   |                   |    |

## ENROLLMENT BY STATES

|                            |    |                      |     |
|----------------------------|----|----------------------|-----|
| Alabama .....              | 11 | Nebraska .....       | 0   |
| Connecticut .....          | 1  | New Jersey .....     | 7   |
| Delaware .....             | 0  | New York .....       | 17  |
| District of Columbia ..... | 3  | North Carolina ..... | 533 |
| Florida .....              | 7  | Ohio .....           | 1   |
| Georgia .....              | 5  | Pennsylvania .....   | 8   |
| Illinois .....             | 4  | South Carolina ..... | 24  |
| Indiana .....              | 4  | Tennessee .....      | 3   |
| Kentucky .....             | 1  | Virginia .....       | 42  |
| Louisiana .....            | 1  | Washington .....     | 3   |
| Maine .....                | 0  | West Virginia .....  | 6   |
| Maryland .....             | 1  |                      |     |
| Massachusetts .....        | 3  |                      |     |
| Mississippi .....          | 0  | TOTAL .....          | 705 |

## SUMMARY OF ENROLLMENT

## College:

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| Senior Class .....                                                | 71           |
| Junior Class .....                                                | 114          |
| Sophomore Class .....                                             | 166          |
| Freshman Class .....                                              | 311          |
| Graduate Students .....                                           | 18           |
| Unclassified Students .....                                       | 25           |
| <b>TOTAL .....</b>                                                | <b>705</b>   |
| Total enrollment, excluding duplicates regular session, 1943-44.. | 705          |
| Extension Division, 1943-44.....                                  | 71           |
| Summer Quarter .....                                              | 554          |
| Summer Quarter, Graduate Students .....                           | 32           |
| <b>GRAND TOTAL, 1043-44.....</b>                                  | <b>1,362</b> |

## APPLICATION FOR ADMISSION

Full Name .....

|           |            |             |
|-----------|------------|-------------|
| Last Name | First Name | Middle Name |
|-----------|------------|-------------|

Home Address .....

|            |      |
|------------|------|
| Street No. | City |
|------------|------|

Name and address of person recommending you.....

.....

Place of Birth..... Date.....

|     |     |      |
|-----|-----|------|
| Mo. | Day | Year |
|-----|-----|------|

From what high school did you graduate?.....

Year of graduation.....

Address of school or college last attended.....

Name of Principal or President.....

Do you plan to room and board on the campus?



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